KV-X2151A/B/D

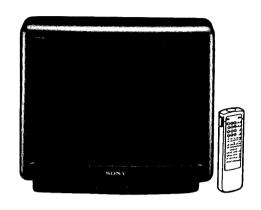
MODEL

SERVICE MANUAL

KV-X2151D

SERVICE MANUAL

AEP Model Chassis No. SCC-E18Y-A



AE-1C CHASSIS

MODELS OF 1	THE SAME SERIES
KV-X2151D	KV-C2551D/C2951D
KV-C2121D	KV-A2111D/A2511D
KV-A2911D	KV-E2521D/E2921D

SPECIFICATIONS

[KV-X2151D]

Television system

Color system Stereo system

B/G/H PAL, SECAM, NTSC3.58, NTSC4.43

GERMAN stereo

Channel coverage

CABLE TV (1): S1-S41

CABLE TV (2): S01-S05, M1-M10, U1-U10

Picture tube

Hi-Black Trinitron tube Approx. 54.5 cm (21 inches)

(Approx. 51 cm picture measured diagonally)

100 ° -degree deflection

Inputs / Outputs Terminals

REAR

- 21 pin Euro connector (CENELEC standard)

-Inputs for audio and video signals

-Inputs for RGB

-Outputs of TV video and audio signals

G-2/-921-pin Euro

connector

-Inputs for audio and video signals

-Inputs for S-video

-Outputs for video and audio signals

(selectable)

◆ Audio output(vartable)

-phono jacks

€ Audio inputs (L,R) phono jacks

S-video Inputs-4pin DIN

Headphone jack: stereo mini jack

Sound output

Power consumption

Dimensions

83 Wh

Weight

Approx. $512\times449\times456 \text{ mm } (w/h/d)$

Approx. 24kg

30 W + 30 W

[RM-816]

Remote control system

infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimentions

Weight

Accessories supplied

Approx. $75 \times 221 \times 23$ mm(w/h/d) Approx. 230g (including batters)

IEC designation R6 batteries (2)

Supplied accessories

RM-816 Remote Commander (1)

IEC designation R6 batterie (2)

Design and specifications are subject to change without notice.

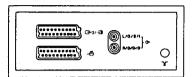
FRONT

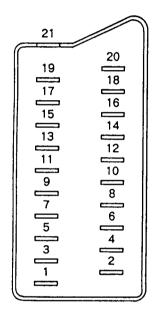
Ð Video input phono jack



TRINITRON®COLOR TV SONY

21 pin connector (→Ö, →2/→③)





Pin No.	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	0	0	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	0	•	Blue input	0.7V ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 - 12V): Part mode Low state (0 - 2V): TV mode Input Impedance: More than 10kohms Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V± 3dB, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (branking)	
15	0	_	Red input	0.7V ± 3dB, 75ohns, positive
15	-	0	(S signal) croma input	0.3V ± 3dB, 75ohns, positive
16	0	•	Blanking Input (Ys signal)	High state (1 – 3V) Low state (0 – 0.4f) Input Impedance: 350 hms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V ± 3dB, 75ohms positive Sync: 0.3V (- 3, +(0 dB)
20	0	-	Video input	1V ± 3dB, 75ohms p ositive Sync: 0.3V (− 3, + 0 dB)
20	-	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms p ⊘sitive Sync: 0.3V (− 3, + 0 dB)
			Common ground (plug, shield)	

O connected

unconnected (open)

≠ at 20Hz - 20kHz

4 Pin Connector (⊕)

Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75ohm, positive Sync 0.3V ₊₁₀ dB
4	C (S signal) input	0.3V ± 3dB 75ohm, positive

TABLE OF CONTENTS

Sec	<u>tion</u> <u>Title</u>	<u>Page</u>	Sect	<u>ion</u> <u>Title</u>	<u>Page</u>
1.	GENERAL		4.	CIRCUIT ADJUSTMENTS	
1-1.	Switching ON/ OFF	4	4-1.	A Board Adjustments	19
1-2.	Presetting	4	4-2.	B Board Adjustments	19
1-3.	Basic TV Operation	6	4-3.	D Board Adjustments	20
1-4.	Advanced TV Operation	7	4-4.	J1 Board Adjustments	21
1~5.	Teletext Operation		4-5.	V Board Adjustment	21
1-6.	Optional Connections/ Operations	9	4-6.	Secondary Adjustments	22
1-7.	Additional Remote Commander Operation	9			
1-8.	Additional Information	10			
			5.	DIAGRAMS	
2.	DISASSEMBLY		5-1.	Block Diagram	23
			5-2.	Circuit Boards Location	27
2-1.	Rear Cover Removal	11	5-3.	Printed Wiring Boards and Schematic Diagrams	27
2-2.	Chassis Assembly Removal	11	5-4.	Semiconductors	57
2-3.	A and J1 Boards Removal	12			
2-4.	B and V boards Removal	12			
2-5.	Service Position	13	6.	EXPLODED VIEWS	
2-6.	Picture Tube Removal	14			
			6-1.	Chassis	59
			6-2.	Picture Tube	60
3.	SET-UP ADJUSTMENTS				
3-1.	Beam Landing	15	7.	ELECTRICAL PARTS LIST	63
3-2.	Convergence	16			
3-3.	Focus	18			
3-4.	Screen (G2) and White Balance	18			

(CAUTION)

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAPTOTHE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK Δ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

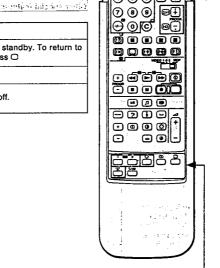
SECTION 1 GENERAL

1-1. SWITCHING ON/OFF

1-2. PRESETTING

After you have completed the basic preparation your TV is ready to be connected to the mains power supply (220/240V AC, 50Hz).

	How to turn the TV on	VI said los brokes and god
	Action	Result
	Press © on the TV.	The TV will turn on. Note: If the screen remains blank, the TV may be in the standby mode. Press O or any number button on the commander to switch it on.
• 0 1 2 3 0 0	How to turn the TV off	montes bilance con.
00000	A Temporarily	
⑦ ◎ ◎ ®Đ ⊖••••••••••••••••••••••••••••••••••••	Press & to enter standby mode.	The TV will be in standby. To return to the TV mode press O
® • • • •	B Completely	
	Press Φ on the TV.	The TV will turn off.
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		•



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10000 10000

Note: These buttons should be used in preset — mode only.

After you have installed the TV you need to preset TV channels.

TV stations broadcast their channels at certain frequencies. You must preset these channels to programme numbers on the TV before you can watch the TV programmes.

There are 60 spaces for storing these channels.

Slide open the full function side of the remote commander to reveal preset buttons.

How to preset channels automatically If you are unfamiliar with the channel numbers of the stations you wish to preset, use "How to preset channels automatically". If you are familiar with the channel numbers refer to "How to preset T.V. channels directly".

Action	Result
Press → to enter the preset mode.	The programme number will start flashing.
Press PROGR + or - or the number buttons to select the programme number to which you want to preset a channel. PROGR ① ② ③ PROGR ① ③ ⑥ ① ② ④ PROGR ① ③ ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ② ⑥ ② ② ⑥ ② ③ ⑥ ② ② ⑥ ② ② ⑥ ② ③ ⑥ ② ④ ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ④ ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ② ⑥ ②	The programme number changes
Press ## + or - once to search forward or backward for channels.	When a channel is tuned in, the search will stop. Note If you want to skip a channel, press (Hz) + or (Hz)
Press ♦ if you want to store the channel which is tuned in. Press ♦ to exit preset mode without storing.	The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 4 to store the other channels.	

How to preset channels directly

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S

Action	Result
Press → to enter the preset mode.	The programme number will start flashing.
Press PROGR +/- or the number buttons to select the programme number on which you want to preset a channel. PROGR 4 3 6 7 0 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	The programme number changes.
3 Press C.	The indication "C" starts flashing on the display.
Select the channel number with two digits (e.g. 04) by pressing the number buttons. 1 2 3 4 5 6 7 8 9 0 Note Press the second number within 5 seconds after the first one, otherwise the operation will be cancelled.	The channel number changes. Note if you have made a mistake the letter "X" will appear. Repeat step 4 again.
Press > to store the channel which is tuned in. Press > to exit the preset mode without storing.	01 The channel is now stored and you have returned to TV mode.
Repeat steps 1 to 5 to store the other chan	nels.

0

(4)

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How to Name a Station

You can use up to five characters to "name" a channel or station (i.e. BBC1).

Result
08 The selected programme number will appear.
The programme — 01— number starts flashing.
The first column of the station name indication will start flashing.
The letters of the alphabet, numbers and the space ("-" will appear sequentially.
The first character is now set and the second column will start flashing.
er.
The channel name is now stored and you have returned to TV mode.

You can tune in a channel temporrarily, if it has not been preset.

Action	Result
Press C.	The indication "C" appears on the screen.
Select the channel number with two digits by pressing the number buttons (e.g. for channel 4, first press 0, then 4.)	The channel is received, but it is not stored to any programme number.

1-3. BASIC TV OPERATION

Action	Result		
Press ⇒ to enter the preset me	The programme number will star flashing.		
number that you want to skip by pressing	The programme number change		
3 Press Coo.	The lowest chain number appear under the programmer.	ം ∥മ െ മെ	
4 Press ♦.	The channel is stored and you returned to TV i	have	
Repeat steps 1 to 4 to skip other pr	ogramme numbers.		
low to Fine Tune Manually			
the picture is distorted, you can fine	tune the channel manually.		
Action	Result		
Press + or - repeatedly until the picture looks normal.	The indication ← F → appears o screen.	on the	
Press ⇒ to enter the preset mode.	ress ⇒ to enter the preset mode. The programme number starts flash		
Drace A	The fine tuning is stored	ŀ	

Note: Normal tuning can be restored if you preset the channel once more.

10000 0 0 0 0 7 8 9 91 + 00 6.

⊕ ⊕ ©

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This section introduces you to the basic control functions which are available on the simple side of the remote commander.

How to Select Programmes

Before you can select programmes make sure that you have preset channels.

Action	Result
Press PROGR +/- or the number buttons. To select a double- ① ③ ① ① ① ① ① ① ① ① ② ② ② ② ② ② ② ② ② ②	23 The selected programme is displayed.

How to Adjust the Volume

Action	 Result
Press ⊿ + or	The volume markers will appear. and are adjusted accordingly.

How to Use additional features

Basic teletext operation

Select

The sbutton to view the teletext.

The Obutton to request subtitles (P.888).

One of the coloured buttons for fastext operation.

The Obutton to return to TV mode.

For details about teletext operation.

How to operate with the buttons on the TV

You can also select programmes and adjust the volume using the $P \rightarrow \triangle \rightarrow O$ and $\rightarrow \bullet \leftarrow$ +/- buttons on the front of the TV.

For operation, first press the $P \rightarrow \triangle \rightarrow \bigcirc$ button repeatedly so that the P (for programme) or \(\square\) (for volume) indication appears on the screen, and then adjust with the →• ← +/- buttons.

Note: To restore to factory set level press $\rightarrow \cdot \leftarrow +/-$ together.

How to view the video input picture

Press 10 To return to the TV mode, press O. For further details.

1-4. ADVANCED TV OPERATION

A-Q2-B

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(a) (b)

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This section shows you how to use convenient features and how to adjust the picture and sound to your taste.

Use the full-function side of the Remote Commander.



You can enjoy the following convenient features.

How to	Action	To resume normal picture/sound
Display on-screen indications	Press ⊙	Indications disappear after some seconds
Display programme numbers	Press	Press ⊕ twice again.
Mute the sound	Press 🗱.	Press © again.
Select a language in bilingual programmes.	Press A/B. The selected mode of the A-CD-B indicator on the TV lights up.	Press A/B.
Set the sound for music listening.	Press ∏.	Press ∏ again.
Use the space sound (special acoustic effect)	Press ↔	Press ⊕ again.
Request the time	Press ②.	Press @ again.

How to adjust the picture and sound

Although the picture and sound have been adjusted at the factory, you might want to adjust them to your own taste. To do this, please follow the steps below.

To Adjust:	Press:	Then:	Result: (+ ←→ −)
Picture:			
Colour Intensity	3	+	More ← Less
Picture Contrast	•		More ←→ Less
Brightness	\$		Bright ← Dark
Sound:			
Bass	2:	(II)	More ← Less
Treble	6	+	More ← Less
Balance	\square		More Right ←→ More Lef

To reset the picture and sound to factory set levels press ----

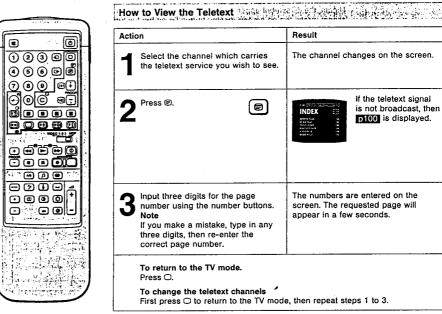
On the set:

Press -+-+/- buttons simultaneously.

1-5. TELETEXT OPERATION

TV stations broadcast teletext programmes via the TV channels. To receive teletext programmes, use the buttons indicated in green on the full side of the Remote Commander.

With the simple side of the Remote Commander, only the basic operation is possible.



Note

How to Use the Advanced Features of Teletext

If the signal of the TV channel is weak, teletext errors may often occur.

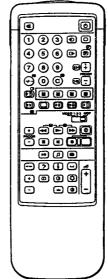
How to	Action	Result (On-screen display)
Request the index page.	Press ① (INDEX).	The index page appears.
Request the subtitle page (p888).	Press Q.	The subtitle page is displayed (p888).
Access the next or preceding page.	Press ❷ (PAGE +) or ❷ (PAGE -).	P201 The next or preceding page appears.



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How to	Action	Result
Superimpose the teletext display on the TV programme.	Press ® once if you are in text mode, or press ® twice if in TV mode. To return to the normal teletext display press ® again.	The teletext displays are superimposed on the TV programmes.
Prevent a teletext page from being updated or changed.	Press & (HOLD). To resume normal teletext reception, press @ (TEXT/MIX).	The HOLD symbol (⊕) appears on the screen and the chosen sub-page is held until you cancel.
Enlarge the teletext display.	Press ⊕ once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.	ward wacher and the upper half is enlarged.
Reveal concealed information (e.g. answers to a quiz).	Press ® (REVEAL). Press again to conceal the information.	The information is revealed.
Watch the TV programme while waiting for a requested page to be displayed.	1. Request a new page.	The numbers are entered.
	2. Press ❷ (TEXT CL).	The TV programme is displayed, and the requested page number and other teletext data appear at the top of the screen.
	When the requested page has been captured, the page number remains and the other data disappears.	P201
	4. Press @ to view this page.	The requested page is displayed.
Have a requested page displayed at a pre-determined time.	1. Request a desired page.	The requested page is displayed.
at a pre-determined time.	2. Press @ (TP ON).	"T**** appears at the bottom of the screen.
	Enter the time you want to have the page displayed with four digits using the number buttons. (For example, enter 0730 for 7:30 AM.)	The time is entered on the screen.
	 Press ® (TEXT CL) to watch the TV programme until the requested time. 	At the requested time, the page number will be displayed at the top of the screen, to view this page, press ®.
	To cancel the request Display the teletext page, then press @ (TP OFF).	The request is cancelled. To resume TV mode press O.

Some of the features may not be available depending on the Teletext service.



How to use the FASTEXT Feature

FASTEXT feature allows you to access pages quickly with one key operation. When a FASTEXT page is broadcast, a colour coded menu appears at the bottom of the screen. Each coloured prompt corresponds to the coloured buttons on either side of your Remote Commander.

Operation

Action	Result
Press one of the coloured buttons which correspond to the coloured prompt on the teletext.	The selected teletext page appears.

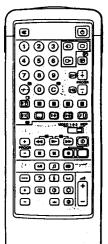
Note

Correct FASTEXT operation depends on the necessary signals sent from the TV station.

1-6. OPTIONAL CONNECTIONS / OPERATIONS

You sele





How to view the video input picture

You can view the picture of video equipment connected to the input terminals by selecting the input mode.

Operation

Action	Result	
Press ⊕repeatedly to select the desired input.	-51	Symbol for the selected input appears. (See the table below.)
To return to the TV mode,	oress the O button.	

Input modes

	Result	
-Ð1	Audio/video input through the -® connector.	
Ð	RGB input through the -® connector.	
- €2	Audio/video input through the ⊕ 2/-® connector.	
- 392	S video input (from a VTR equipped with an S video output) through the @ 2/-89 connector.	
- ⊙3	Audio/video input through - and - jacks on the front.	
- 93 3	S video input through the 🚭 connector on the front (4-pin connector)	
You can also select the input mode using the P → △ → • button on the TV.		

How to select the Output

The @-2/- @ connector outputs four kinds of audio/video signals. You have to select one of them as follows.

fegrigings out in an unit, receip

In this case, first select € and then press +/- buttons to select the input.

Operation

Action	Result	
Press G repeatedly to select the desired input.	10-	Symbol for the selected output appears. (See the table below.)

Output modes

Symbol	Output from
10+	The audio/video signal from the -중1 connector
2 🕒	The audio/video signal from the ⊕ 2/-59 connector
3 🕞	The audio/video signal from the ← → connectors.
₩œ	The audio/video signal from the T aerial terminal.

1-7. ADDITIONAL REMOTE COMMANDER OPERATION

How to Control Other Sony Video Equipment

By switching the VIDEO 1/2/3, MDP selector, you can operate most Sony video equipment (Beta VTR, 8mm VTR, VHS VTR, and video disc player).

Set VIDEO 1/2/3, MDP selector according to the desired video equipment.

VIDEO 1: Beta or ED Beta VTR VIDEO 2: 8mm VTR

VIDEO 3: VHS VTR MDP: Video disc player

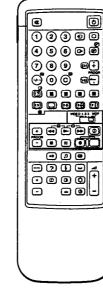
Use the buttons in the indicated area to operate video equipment.

Note

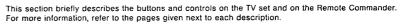
When you use ● button, be sure to press this button and the one on the right simultaneously.

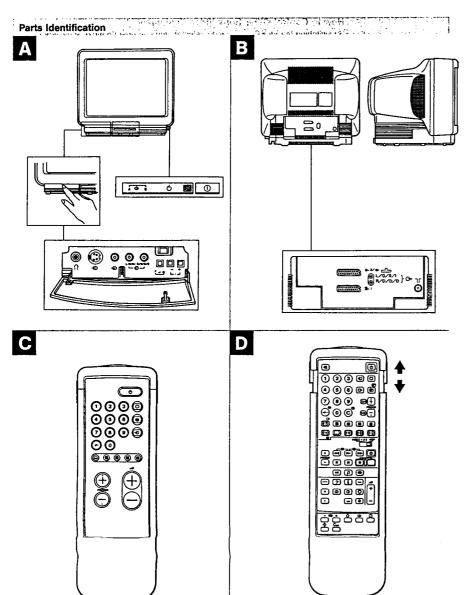
Notes

- If your video equipment is furnished with COMMAND MODE selector, set the selector to the same position as the VIDEO 1/2/3, MDP selector on the supplied Remote Commander.
- If the equipment does not have a certain function, the corresponding button on the Remote Commander will not work.



Buttons to operate other Sony Video equipment





A TV set - Front		
Sign	Name	
0	Main power switch	
ტ	Standby indicator	
а-ОО-В	NICAM indicators	
C	Headphones jack (stereo minijack)	
€€	Input jacks (S-video /video/audio)	
P→△→→Đ	Function selector (Programme/ volume/input)	
- +	Adjustment buttons for function selector	

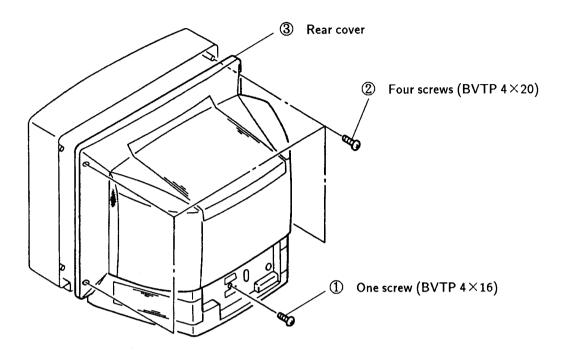
	L	1
B TV set - Rear		
Sign	Name	
⊕• 2/ - €9	21-pin Euro-AV connector (S- video/video input, TV/video output)	
- Ö	21-pin Euro-AV connector (RGB/ video input, TV output	
G+	Audio output jacks (phono jacks)	
٦٢	Aerial terminal (IEC type)	

Remote Commander – simple side			
Sign	Name		
Ð	Input mode selector		
₽	Teletext button		
	Fastext buttons		
0	TV mode selector		
ტ	Standby button		
1,2,3,4,5, 6,7,8,9, and 0	Number buttons		
-/ +	Double-digit entering button		
4 +/-	Volume control buttons		
PROGR +/-	Programme selector		

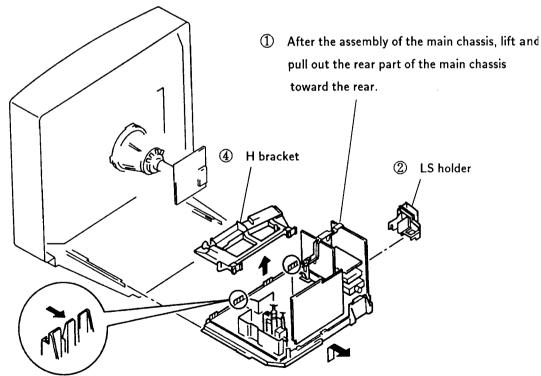
D Remote Commander - full function side				
Sign				
43%	Mute on/off button			
ڻ ن	Standby button			
1,2,3,4,5, 6,7,8,9, and 0	Number buttons			
Ð	Input mode selector			
0	TV power on/TV mode selector button			
G	Output mode selector			
₿	Teletext button			
u	Music button			
A/B	Selector for NICAM			
-/	Double-digit entering button			
С	Direct channel entering button			
€9	Space sound button			
0	Request time display			
78000 01880	Teletext operation buttons			
	Fastext buttons			
•	On-screen display button			
→• ←	Picture and sound adjustment reset button			
⊿ +/-	Volume control			
PROGR +/-	Programme selector			
⊕•••±≥ □••+/-	Picture and sound controls			
VIDEO 1/2/3, MDP	Video equipment selector			
44≻≻ ■ H ●	Video equipment operation buttons			
Coo	Programme number clear button			
⇒	Channel preset button			
- 4+	Tuning buttons			
♦	Channel store button	·-·		
0	Station label button			

SECTION 2 DISASSEMBLY

2-1. REAR COVER REMOVAL

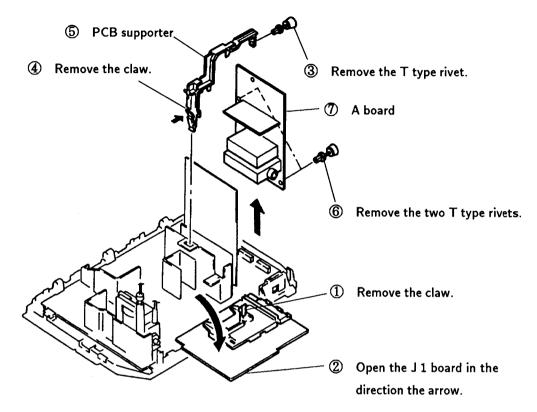


2-2. CHASSIS ASSEMBLY REMOVAL

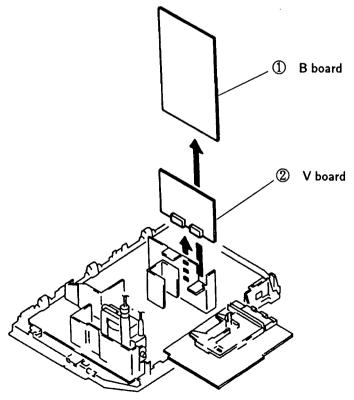


③ Push the two claws of the main chassis in the direction of the arrow and remove the H bracket upwards.

2-3. A AND J 1 BOARDS REMOVAL



2-4. B AND V BOARDS REMOVAL

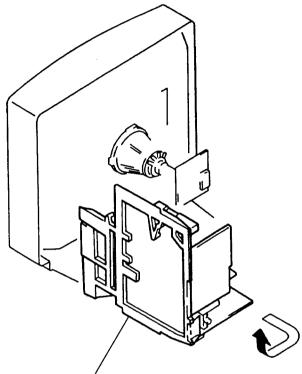


Note: 10 pin extension cable (S-0945-001-0)

2-5. SERVICE POSITION

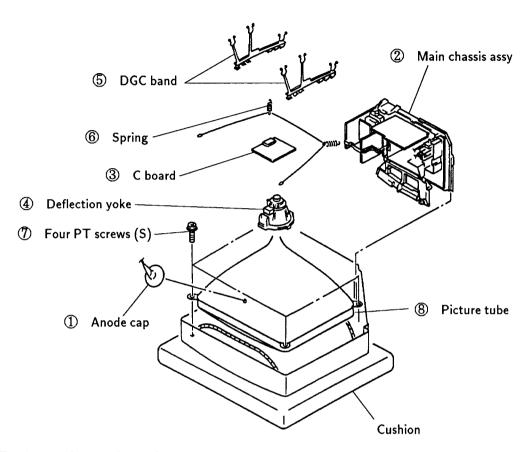
Remove the J 2 bracket from the main chassis assembly and then perform the following servicing.

(Refer to 2-2. CHASSIS ASSEMBLY REMOVAL)



① Remove main chassis assembly in the direction of the arrow.

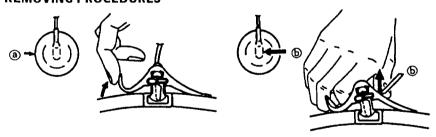
2-6. PICTURE TUBE REMOVAL



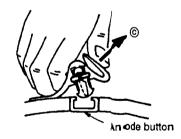
REMOVAL OF ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES



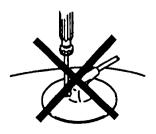
- ① Turn up one side of the rubber cap in the ② Using a thumb pull up the rubber cap direction indicated by the arrow @.
 - firmly in the direction indicated by the arrow (b).

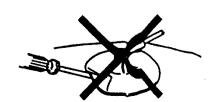


3 When one side of the rubber cap is separated from the angle button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- 1 Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook
- terminal is built in the rubber. Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted. The controls and switch below should be set as follows unless otherwise noted:
 - ◆ CONTRASTcontrol ······ 80%(or Normal by commander)

☼ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

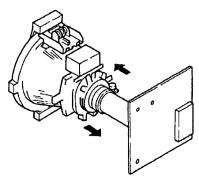
3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

 $\begin{array}{c} CONTRAST \\ BRIGHTNESS \end{array} \right\} normal$

- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1 - 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and blue and confirm the condition.
- When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)



-- 15 -

Fig.3-1

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

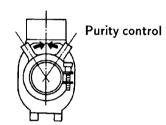


Fig.3-2

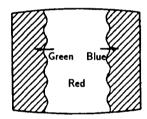
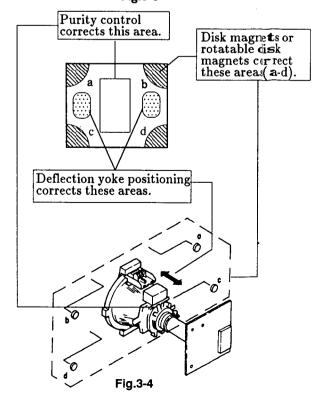


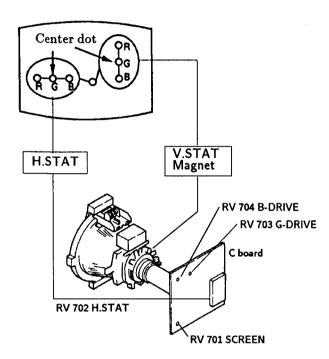
Fig.3-3



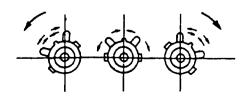
3-2. CONVERGENCE

Preparation:

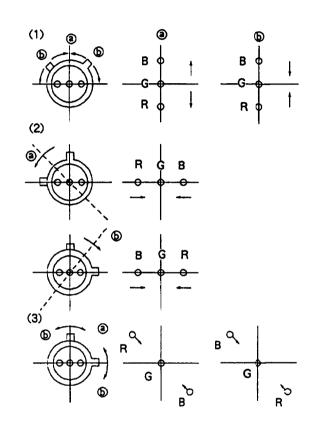
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



- 1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen. (Horizontal movement)
- 2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
- 3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)
- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow (2) and (3), red, green and blue dots move as shown below.

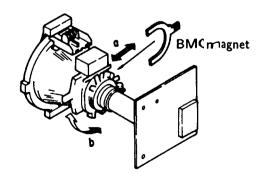


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

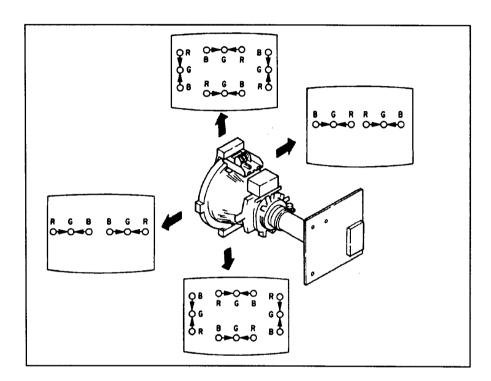
In either case, repeat Beam Landing Adjustment.



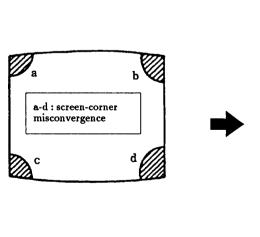
(2) Dynamic Convergence Adjustment Preparation:

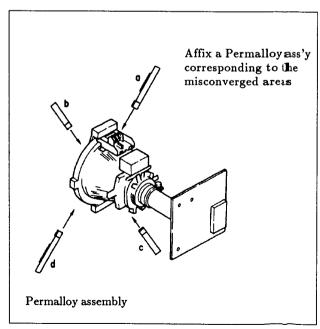
- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



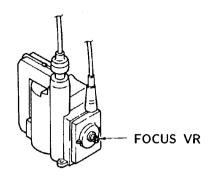
(3) Screen-corner Convergence





3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

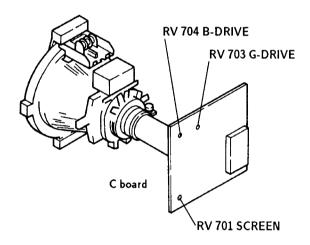


White Balance Adjustment

- 1. Input all-white signal from the pattern generator.
- 2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
- 3. Adjust the following using RV 704 (B DRIVE) and RV 703 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

3-4. SCREEN (G 2) and WHITE BALANCE

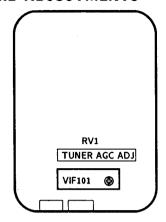


Screen (G 2) Setting

- 1. Input dot signal from the pattern generator.
- 2. Set the picture BRIGHTNESS control to minimum level.
- 3. Apply 170 V DC to the cathodes of R,G and B from an external power power source.
- 4. While watching the picture, adjust the G 2 volume (RV701) immediately before fly-back line disappears.

SECTION 4 CIRCUIT ADJUSTMENTS

4-1. A BOARD ADJUSTMENTS

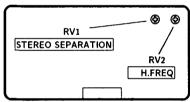


A BOARD (COMPONENT SIDE)

TUNER AGC ADJUSTMENT (VIF101, RV1)

- 1. Align with an appropriate signal between stations.
- 2. Adjust RV1 so that snow noise and cross modulation just disappear from the picture.

IFG5.5S SIF



IFG5.5S SIF -component side-

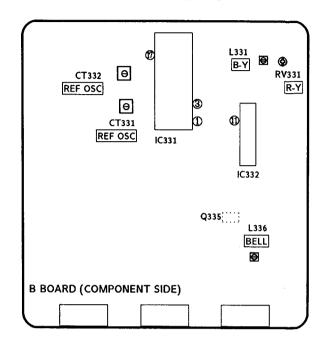
STEREO SEPALATION ADJUSTMENT (RV1)

- 1. Input stereo signals. (L-CH 400Hz, R-CH 1KHz)
- 2. Check the stereo indicator.
- 3. Connect on oscilloscope to pin® (CH1) of CN1 through band pass filter of 1KHz
- 4. Adjust RV1 so that 1KHz voltage goes down to the minmum.

H FREQ (RV2)

- Input a PAL COLOR BAR signal, then connect a jumper between pin[®] IC4 and GND.
- Connect a frequency counter to pin IFG5.5S
 (HP) of CN1 through a probe of 10:1.
- 3. Adjust RV2 (H.FREQ) 15.625 ± 50 Hz.
- 4. After adjustment, remove the jamper.

4-2. B BOARD ADJUSTMENTS



REFERENCE OSCILLATOR ADJUSTMENT (CT332 8.8MHz)

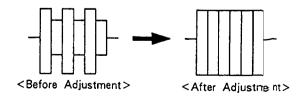
- 1. Input a PAL color bar signal.
- 3. Adjust CT332 to obtain synchronization.

REFERENCE OSCILLATOR ADJUSTMENT (CT331 7.16MHz)

- 1. Input an NTSC3.58 color bar signal.
- 2. Ground pin ® of IC331.
- 3. Adjust the CT331 to obtain synchronization.
- 4. Remove the jumper grounding pin ① of IC331.

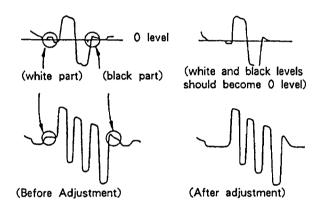
BELL FILTER ADJUSTMENT (L336)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to the emitter of Q3 35.
- 3. Adjust L336 so that the waveform is flat.

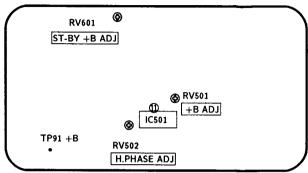


DISCRIMINATION ADJUSTMENTS (RV331 and L331)

- 1. Input a SECAM color bar signal.
- 2. Connect the oscilloscope to pin ① of IC331.
- Adjust RV331 until the white and black sections
 of the waveform at pin ① are at the 0 level.
 Connect the oscilloscope to pin ③ of IC331.
- 4. Adjust L331 until the white and black sections of
- 5. the waveform at pin 3 are at the 0 level.



4-3. D BOARD ADJUSTMENTS



D BOARD (COMPONENT SIDE)

+B ADJUSTMENT (RV501)

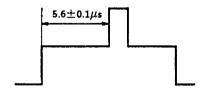
- 1. Connect the digital multimeter to TP91.
- 2. Adjust RV501 to obtain 135 ± 0.2 V.

ST-BY +B ADJUSTMENT (RV601)

- 1. Put the system into \circlearrowleft standby mode (remote commander).
- 2. Connect the digital multimeter to TP91.
- 3. Adjust RV601 to obtain $135 \pm 3V$.
- 4. Take the system out of \circlearrowleft standby mode (remote commander).

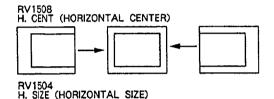
H.PHASE ADJUSTMENT (RV502)

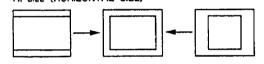
- 1. Input a PAL color bar signal.
- 2. Set the picture and brightness controls to their normal levels.
- 3. Set RV1508 (H.CENT) to its mechanical center.
- 4. Connect the oscilloscope to pin (I) (SCP) of IC
- 5. Rotate RV502 to adjust to $5.6 \pm 0.1 \mu s$.

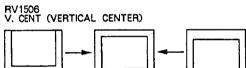


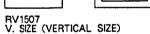
4-4. J1 BOARD ADJUSTMENTS

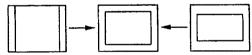
RV1506 **③ ③ ③** RV1504 RV1508 RV1501 PIN COR RV1502 **RV1502 PIN PHASE** @RV1505 **RV1503 PIN AMP** RV1503 RV1504 H.SIZE @RV1501 **RV1505 CORNER COR ©**RV1509 RV1506 V.CENT **©**RV1507 RV1507 V.SIZE RV1508 H.CENT **RV1509 V.ANGLE** J1 BOARD (COMPONENT SIDE)



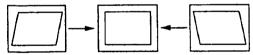




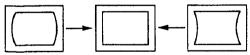




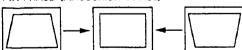
RV1509 V. ANGLE (VERTICAL ANGLE)



RV1503 PIN AMP (PINCUSHION AMPLIFIER)



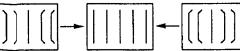
RV1502 PIN PHASE (PINCUSHION PHASE)



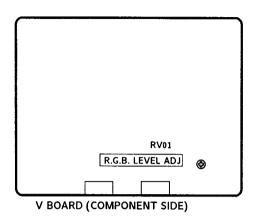
RV1501 PIN. COR (PINCUSHION CORRECT)



RV1505 CORNER. COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENT



RGB LEVEL ADJUSTMENT (RV01)

- 1. Maximize the picture setting.
- 2. Adjust RV01 so that the RGB output is 0.75V.

4-6. SECONDARY ADJUSTMENTS

SUB BRIGHTNESS ADJUSTMENT

- 1. Set the system to receive a test pattern.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Switch off the power.
- While depressing the adjusting buttons + and
 simultaneusly, turn on the power. (SUB mode is obtained)
- 5. Minimize the O contrast setting.
- 6. Adjust the ☆ brightness control so that the gray scale 0 IRE section is cut off completely and the 20 IRE section is barely glowing.
- 7. Depress the \diamondsuit (store) button of the remote commander.

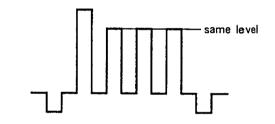
(SUB mode is released)

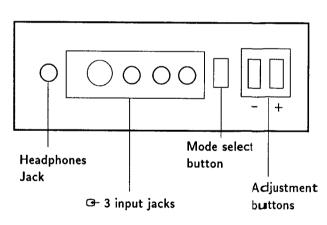
If there is no test color pattern

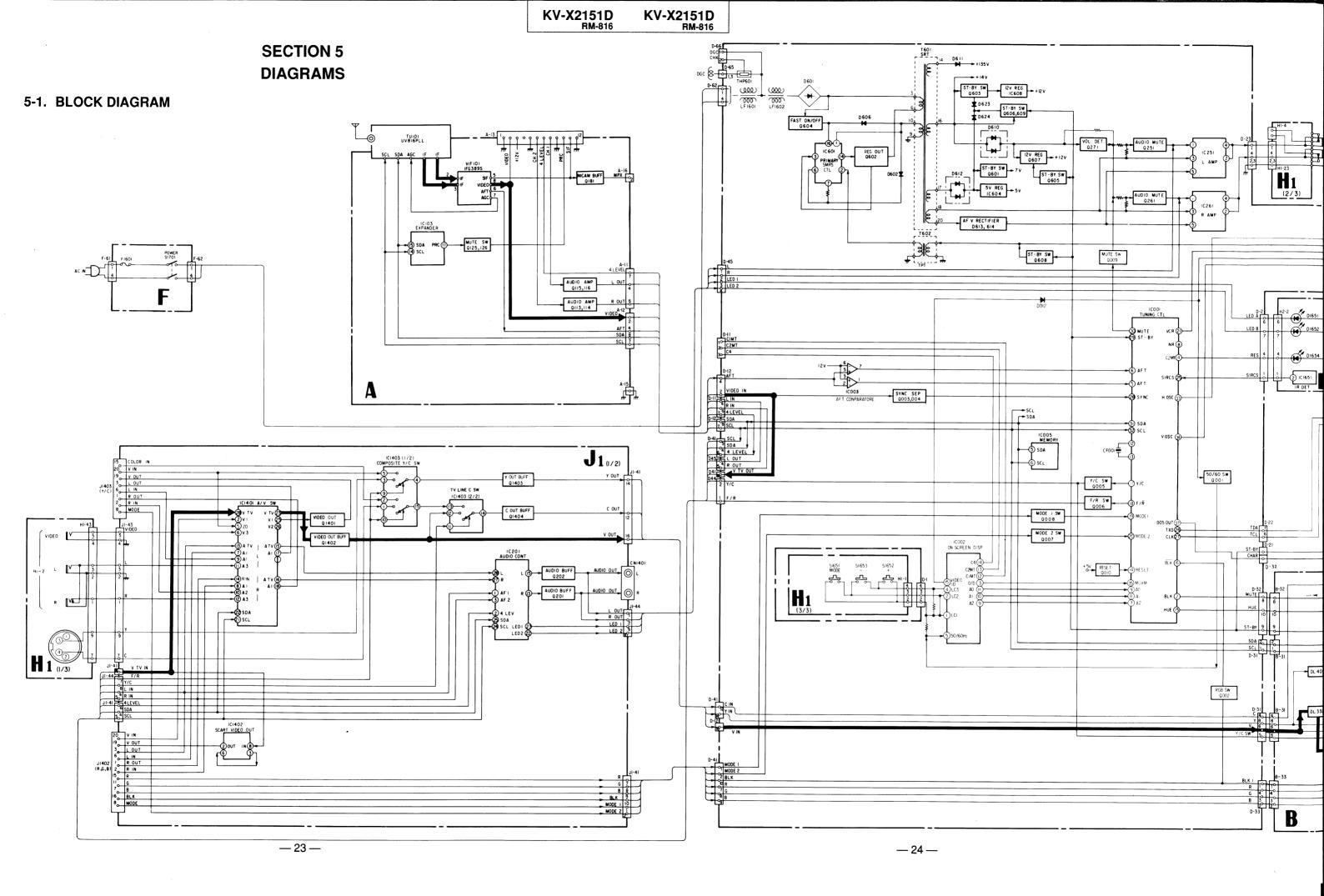
- 1. Set the system to receive a color pattern.
- Press → ← on the remote commander to put the system into normal mode.
 Set the ② color to its normal state.
- 3-5. Steps are the same as above.
- 6. Since 20 IRE is nearly blue, adjust the Dightness control so that the blue barely glows.
- 7. Same as step 7 above.
- Press → ← on the remote commander to put the system into normal mode.

SUB COLOR ADJUSTMENT

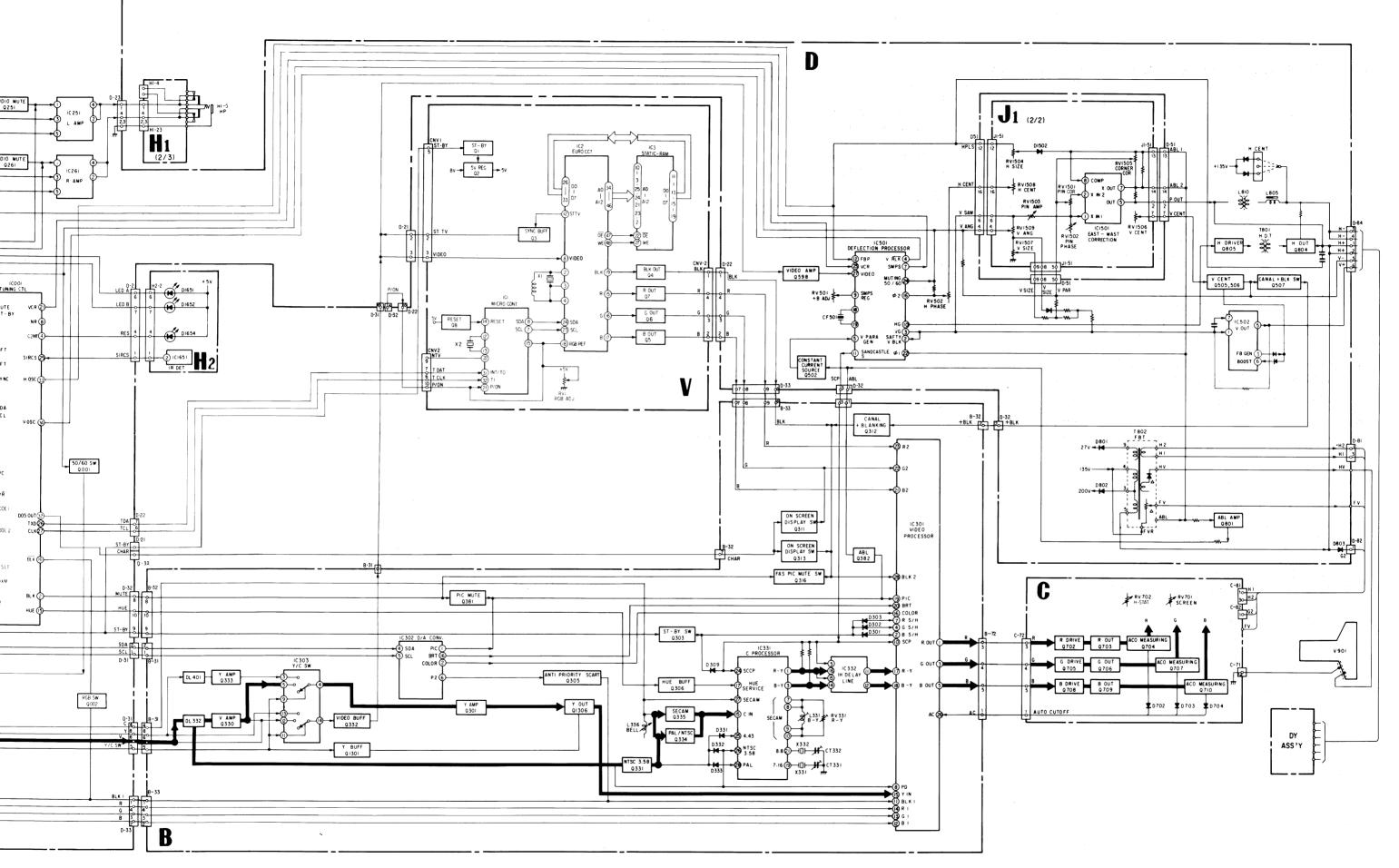
- 1. Set the system to receive color bars.
- Press → ← on the remote commander to put the system into normal mode.
- 3. Cut off the power.
- While depressing the adjustment buttons + and
 simultaneusly, turn on the power. (SUB mode is obtained).
- 5. Adjust the color control so that the B out waveform (pin ⑤ of C board connector CNC72) is as shown in the figure below.
- 6. Depress the \diamondsuit (store) button of the remote commander. (SUB mode is released)





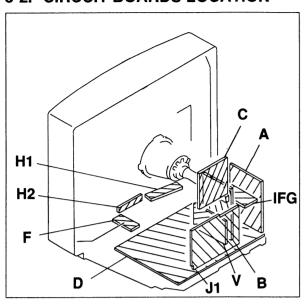


KV-X2151D KV-X2151D RM-816



- A Board -

5-2. CIRCUIT BOARDS LOCATION



5-3. PRINTED WIRING BOARDS AND **SCHEMATIC DIAGRAMS**

- Conductor Side -

Note:

- All capacitors are in µF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All electrolytics are in 50V unless otherwise specified.
- · All resistors are in ohms.

 $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$

· Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4W

- METAL FILM (:RN) resistors in 1%, 1/6W unless otherwise secified.
- : nonflammable resistor.
- ↑: internal component.
- : panel designation, or adjustment for repair.
- · All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- \(\preceq\): earth-ground.
- # : earth-chassis.
- · All voltages are in V.
- · Voltage are dc with respect to ground unless otherwise
- Readings are taken with a 10 $M\Omega$ digital multimeter.
- · Readings are taken with a color-bar signal input.
- · Voltage variations may be noted due to normal production tolerance.
- ____: B+ bus.
- signal path. (RF)
- · Circuled numbers are waveform references.

Reference information

RESISTOR : RN METAL FILM

: RC SOLID

: FPRD NONFLAMMABLE CARBON : FUSE NONFLAMMABLE FUSIBLE NONFLAMMABLE WIREWOUND : RW NONFLAMMABLE METALOXIDE : RS NONFLAMMABLE CEMENT : RB : **※** ADJUSTMENT RESISTOR

COIL : LF-8L MICRO INDUCTOR

CAPACITOR: TA **TANTALUM STYROL** : PS

: PP POLYPROPYLENE

: PT **MYLAR**

METALIZED POLYESTER : MPS METALIZED POLYPROPYLENE : MPP

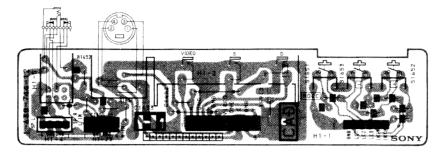
BIPOLAR : ALB

: ALT HIGH TEMPERATURE

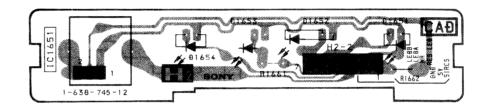
HIGH RIPPLE : ALR

The components identified by shading and mark Λ are critical for safety. Replace only with part number specified.

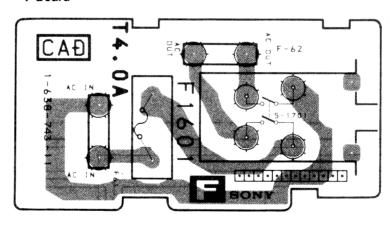
--- H1 Board ---



- H2 Board -



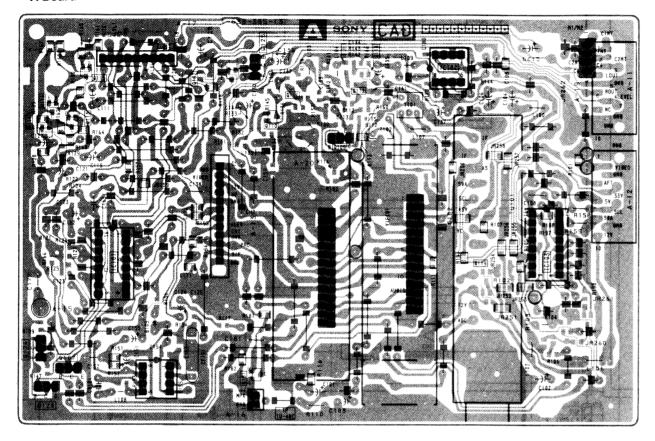
- F Board -



— 27 —

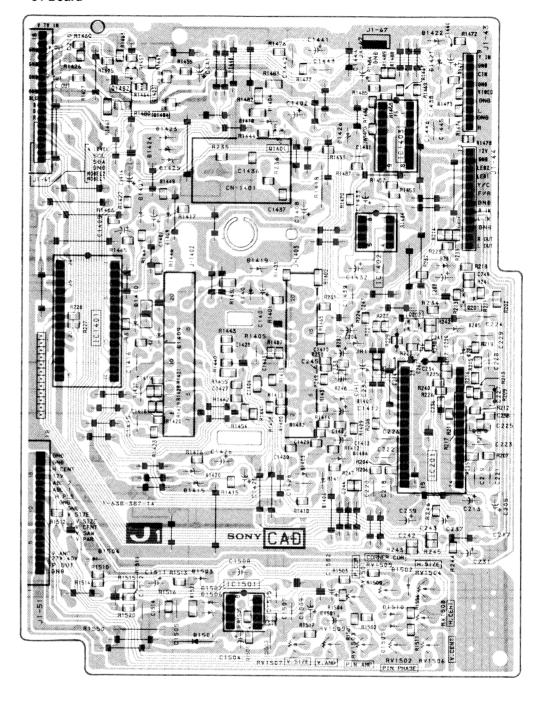
[TUNER, SIF, VIF]

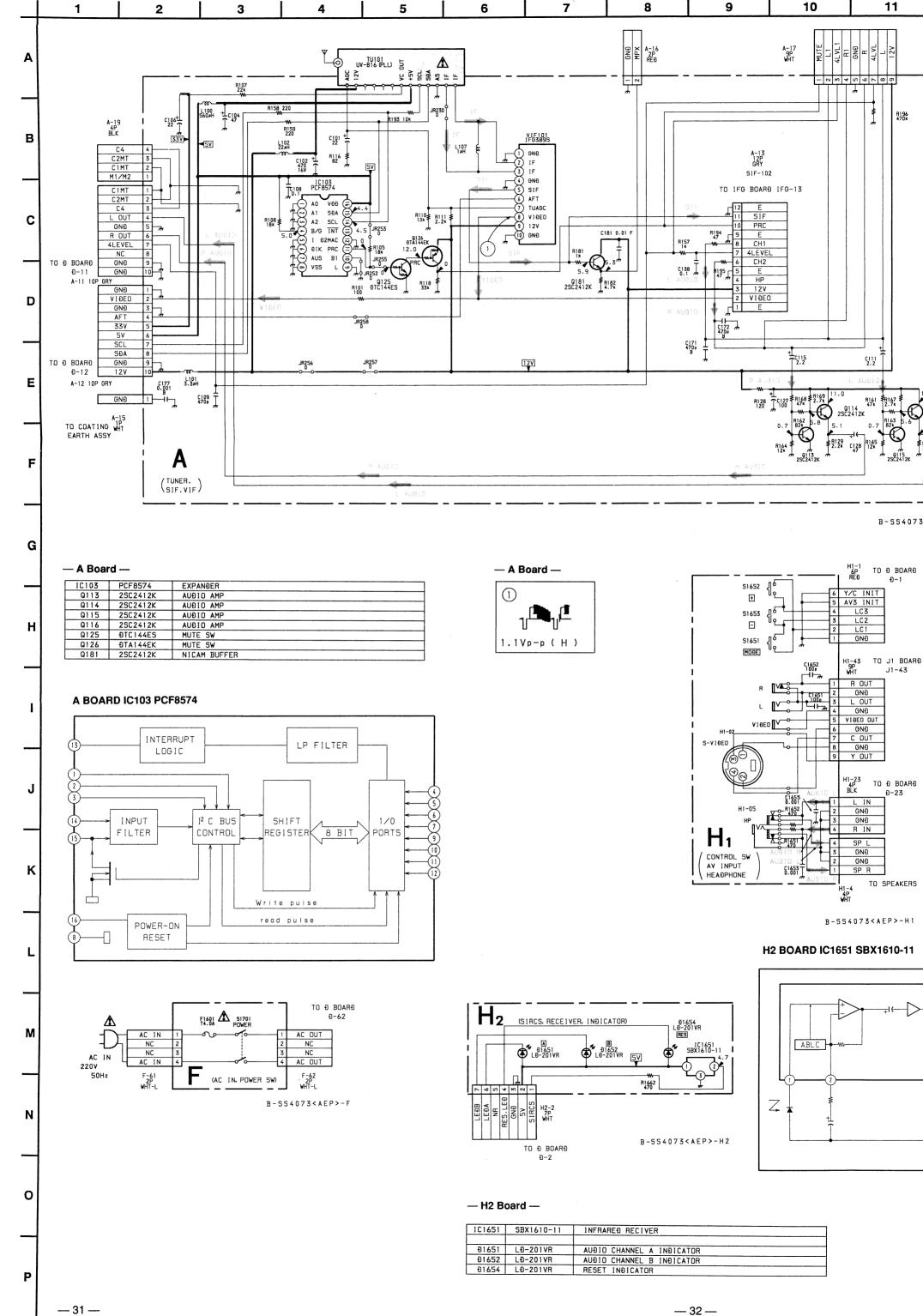
— A Board —



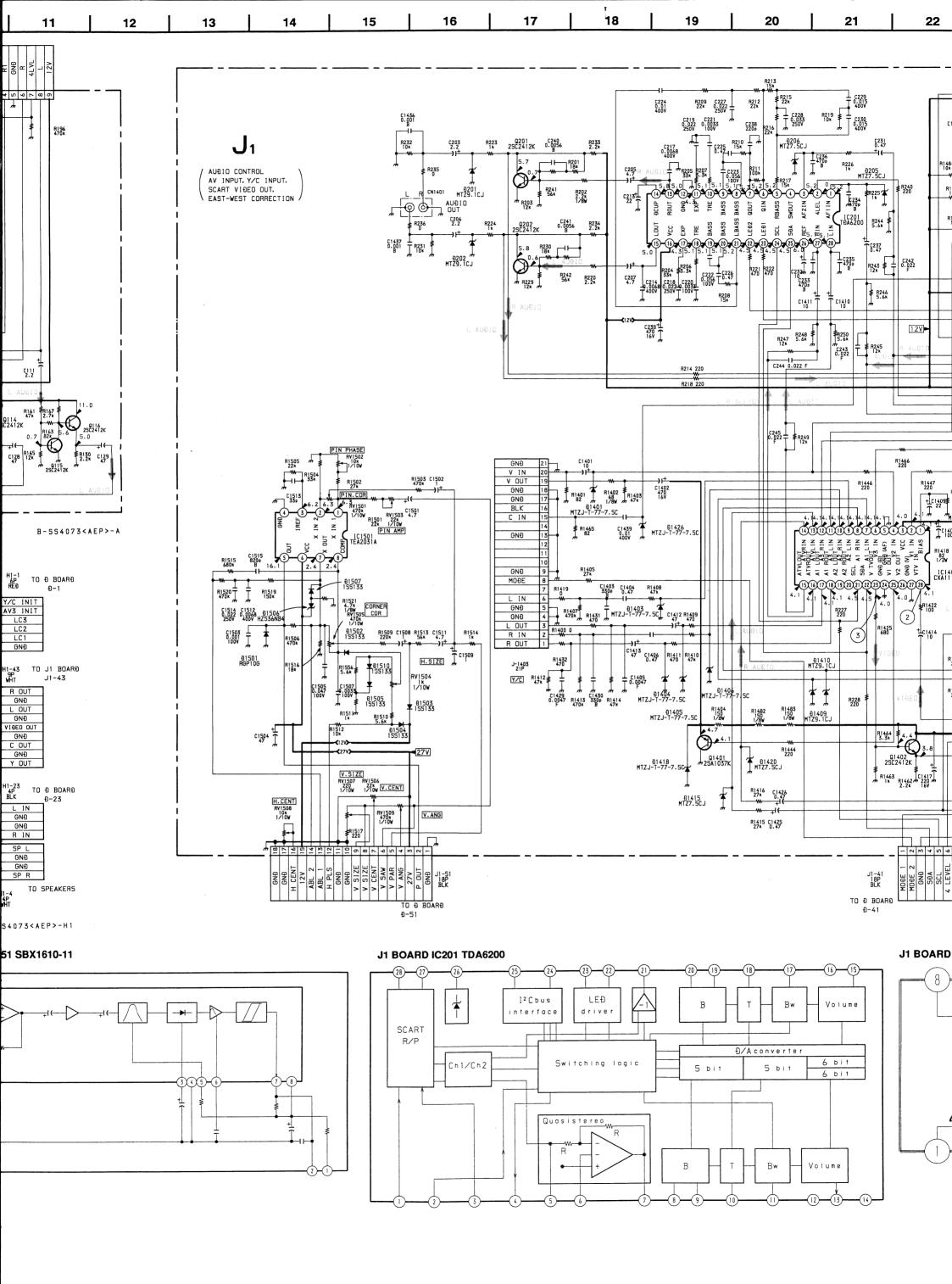
J1 [AUDIO CONTROL, AV INPUT, Y/C INPUT, VIDEO OUT, EAST-WEST CONRECTION]

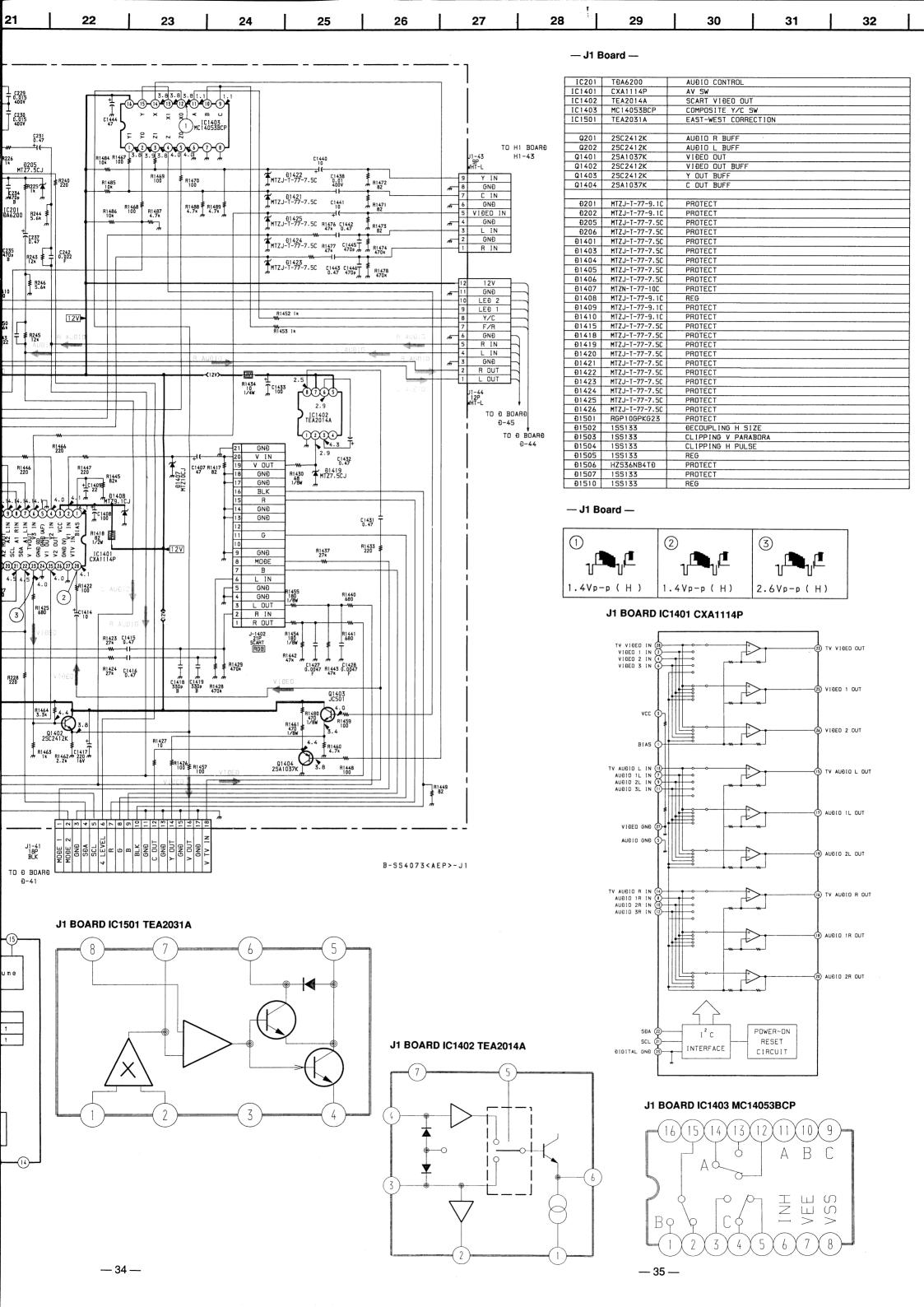
— J1 Board —



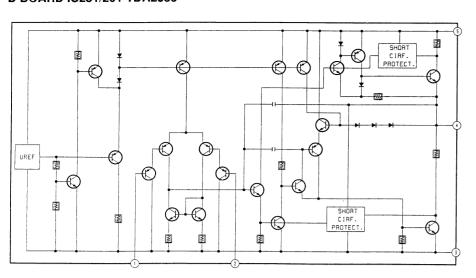


— 32 —

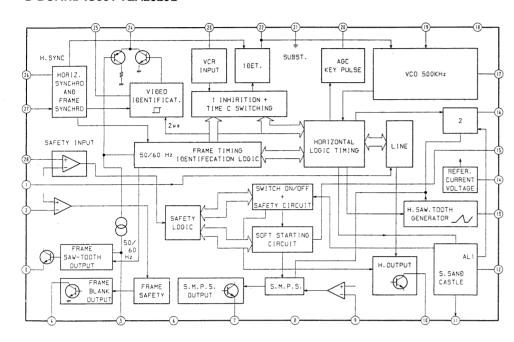




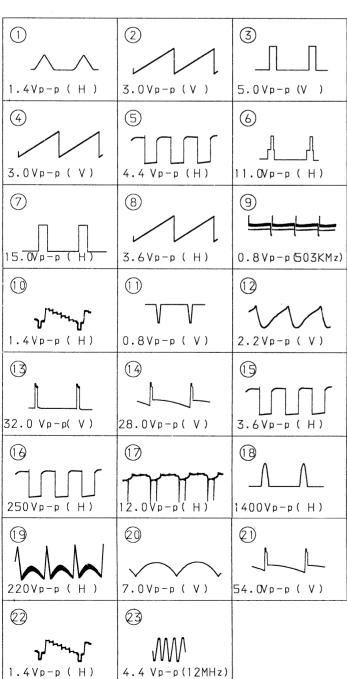
D BOARD IC251/261 TDA2050



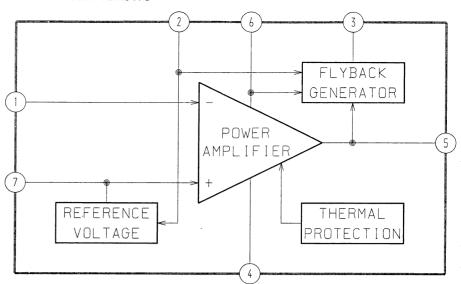
D BOARD IC501 TEA2028B



— D Board —



D BOARD IC502 TDA8170



Α

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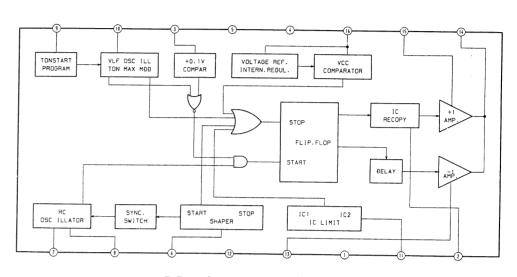
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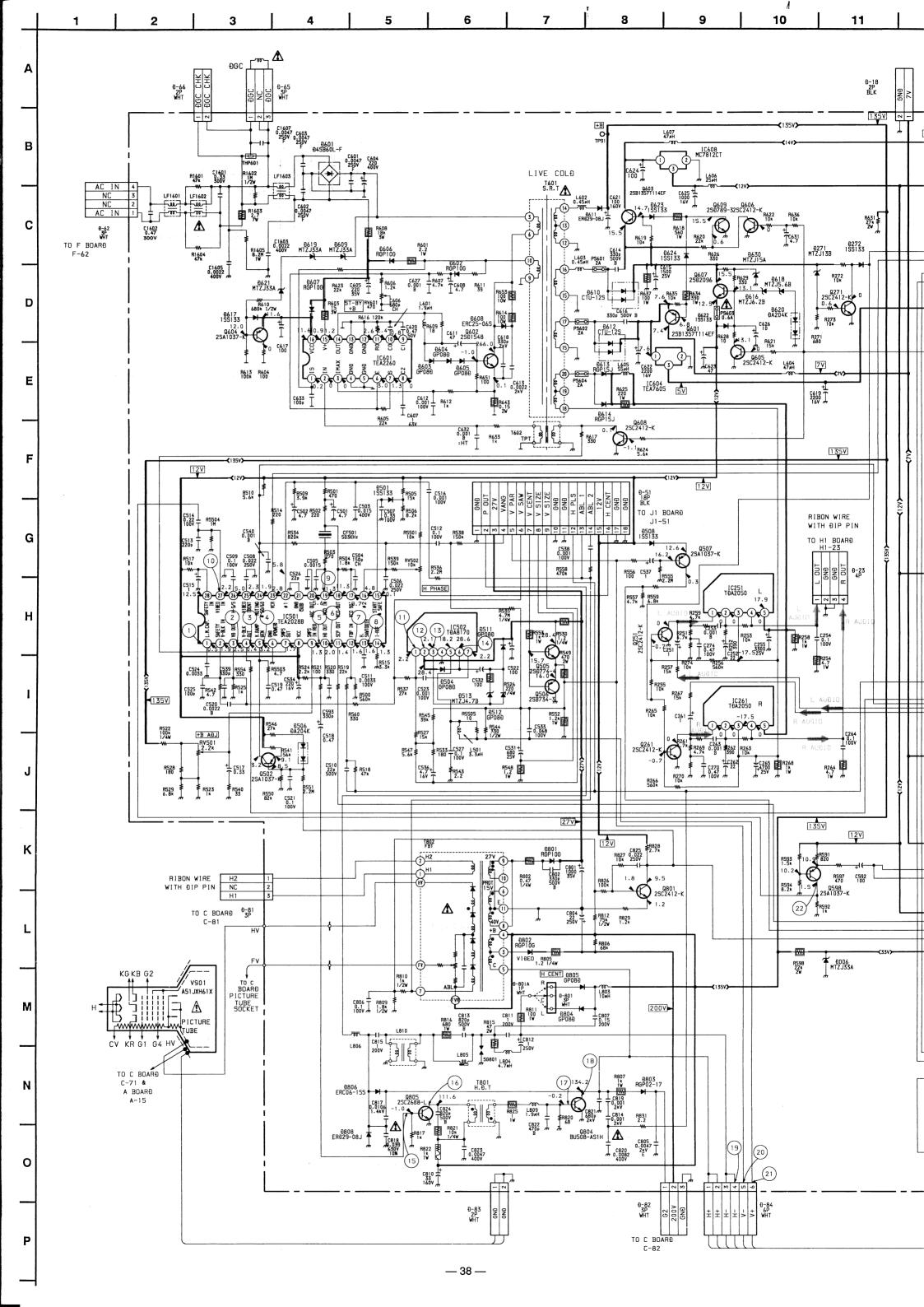
D BOARD IC601 TEA2260

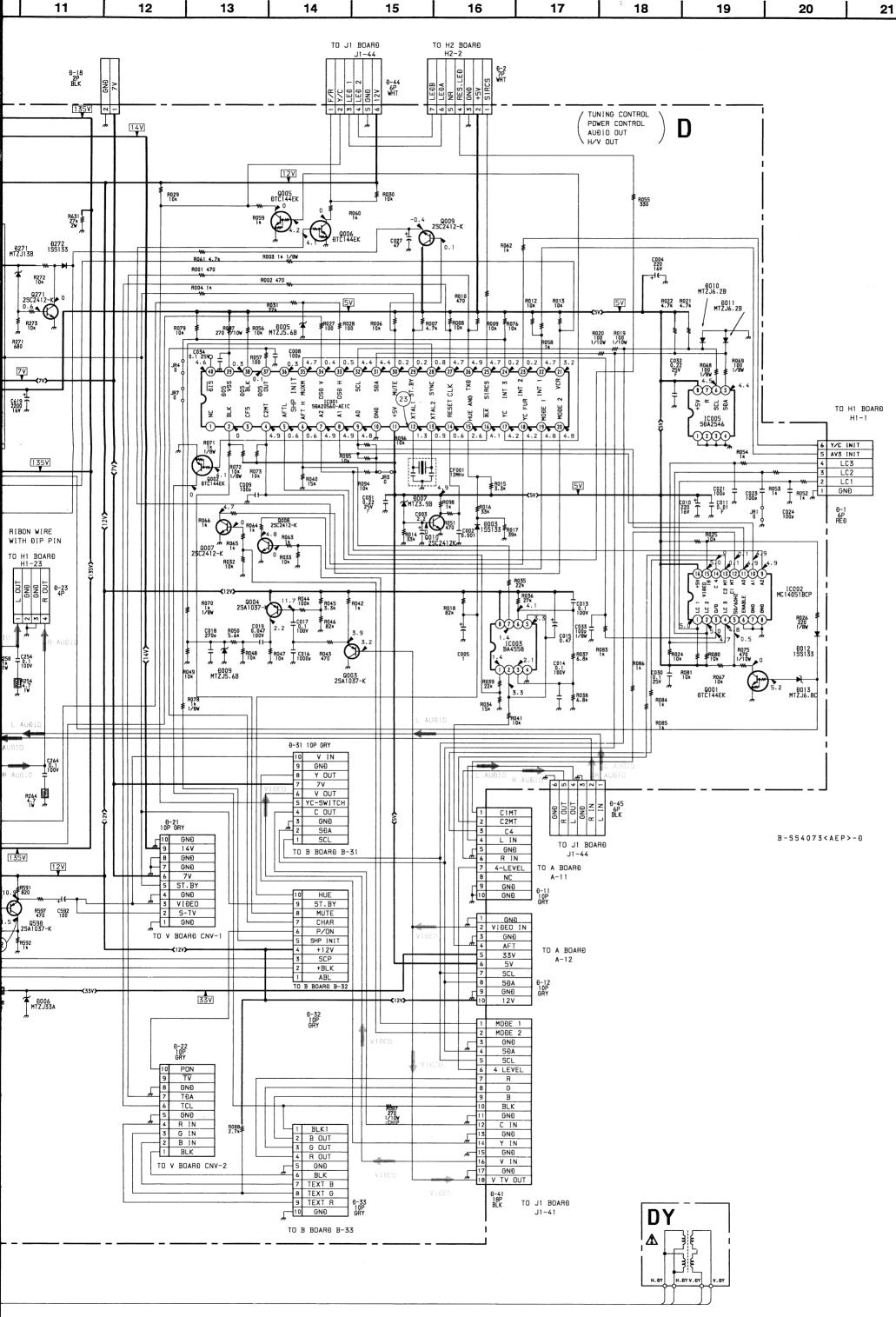


— D Board —

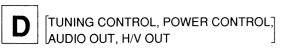
1C002 1C003	SDA20560-A012	TUNING CTL			
10003	MC14051BCP	ON SCREEN DISPLAY			
	BA4558	AFT COMPARATOR			
10005	SĐA2546	MY 'MEMORY			
10251	TĐA2050	AUÐIO DUT (L)			
10261	TĐA2050	AUÐIO OUT (R)			
10501	TEA2028B	ĐEFLECTION PROCESSOR			
10502	TĐA8170	V OUT			
10601	TEA2260	PRIMARY SMRS CTL			
10604	TEA7605	+5V REG			
10608	MC7812CT	+12V REG			
Q001	ÐTC144EK	50/60Hz SW			
0002	DTC144EK	BLK SW			
0003	25A1037K	SYNC SEPARATOR			
0004	25A1037K	SYNC SEPARATOR			
0005	ÐTC144EK	Y/C SW			
0006	ĐTC144EK	FRONT/REAR SW			
0007	2SC2412K	MOĐE 2 SWITCH			
8000	25C2412K	MOĐE 1 SWITCH			
0009	25C2412K	MUTE SW			
0010	25C2412K	RESET			
0251	25C2412K	AUÐ10 MUTE			
0261	25C2412K	AUÐIO MUTE			
Q271	25C2412K	VOLTAGE DETECT			
Q502	25A1037K	CONSTANT CURRENT SOURCE			
Q505	25Đ774	V CENT			
0506	25B734	V CENT			
Q507	25A1037K	CANAL +BLK			
Q598	25A1037K	VIĐEO AMP			
Q601	2SB1357T114EF	STBY SW			
0602	25£1548	REG OUT			
Q603	25B1357T114EF	STBY SW			
0604	25A1037K	FAST ON/OFF			
Q605	25C2412K	STBY SW			
0606	25C2412K	STBY SW			
Q607	2502096-EF	+12V REG			
0608	25C2412K	STBY SW			
Q609	250789-3	STBY SW			
Q801	25C2412K	ABL AMP			
Q804	25Ð1941	H OUT			
	2SC2688	H DRIVER			

Đ003	155133	HUE CTL
Đ005	MTZJ5.6B	PROTECT
900G	MTZJ33A	VC VOLTAGE REGULATION
Đ007	MTZJ3.9B	PROTECT RESET
Đ009	MTZJ5.6B	CLIPPING SYNC LEVEL
Đ010	MTZJ6.2B	PROTECT
Đ011	MTZJ6.2B	PROTECT
Đ012	155133	PROTECT
Đ013	MTZJ6.8C	PROTECT
Đ271	MTZJ13B	VOLTAGE DETECT
Đ272	155133	DECOUPING MUTE AUDIO
Ð501	155133	SOFT START
Ð504	GP08ĐPKG23	V PULSE OUT
Ð506	ĐA204K	CURRENT REG
Ð508	155133	CANAL +BLK LEVEL
Ð511	GP080PKG23	PROTECT
Ð512	GP08DPKG23	PROTECT
Ð513	MTZJ4.7B	PROTECT
Đ601	Đ43B60L-F	AC RECT
Đ602	RGP10GPKG23	REF RECT
Đ603	GP080PKG23	SMPS DRIVE 1
Đ604	GP08DPKG23	SMPS DRIVE 2
£605	GP08ĐPKG23	SMPS DRIVE 3
9606	RGP10GPKG23	+12V RECT
Đ607	RGP10GPKG23	REF RECT
£608	ERC25-06S	PLUSE CLIPPER
Đ609	MTZJ33A	FAST ON/OFF
Đ610	CTU-125	+14V RECT
Ð611	ERÐ29-08J	+135V RECT
£612	CTU-125	+7V RECT
Đ613	RGP15J-6040G23	AF V RECT-1
Đ614	RGP15J-6040G23	AF V RECT-2
Ð616	MTZJ6.2B	+12V REG
£617	155133	PROTECT
£618	MTZJ5.6B	+12V REF
Đ619	MTZJ33A	FAST ON/OFF-2
£620	ĐA204K	+12V REF
Ð621	MTZJ33A	FAST ON/OFF-3
Đ622	155133	PROTECT
Đ623	155133	DECOUPING STBY
Đ624	155133	DECOUPING DTBY
£630	MTZJ15A	+12V RECT
Đ801	RGP10GPKG23	+27V RECT
Đ802	RGP10GPKG23	+200V RECT
Đ803	RGP02-17PKG23	G2 RECT
Đ804	GP080PKG23	H CENTER-1
Đ805	GP08DPKG23	H CENTER-2
£806	ERC06-155	H ĐAMPER-1
£808	ER028-085	PIN DAMPER

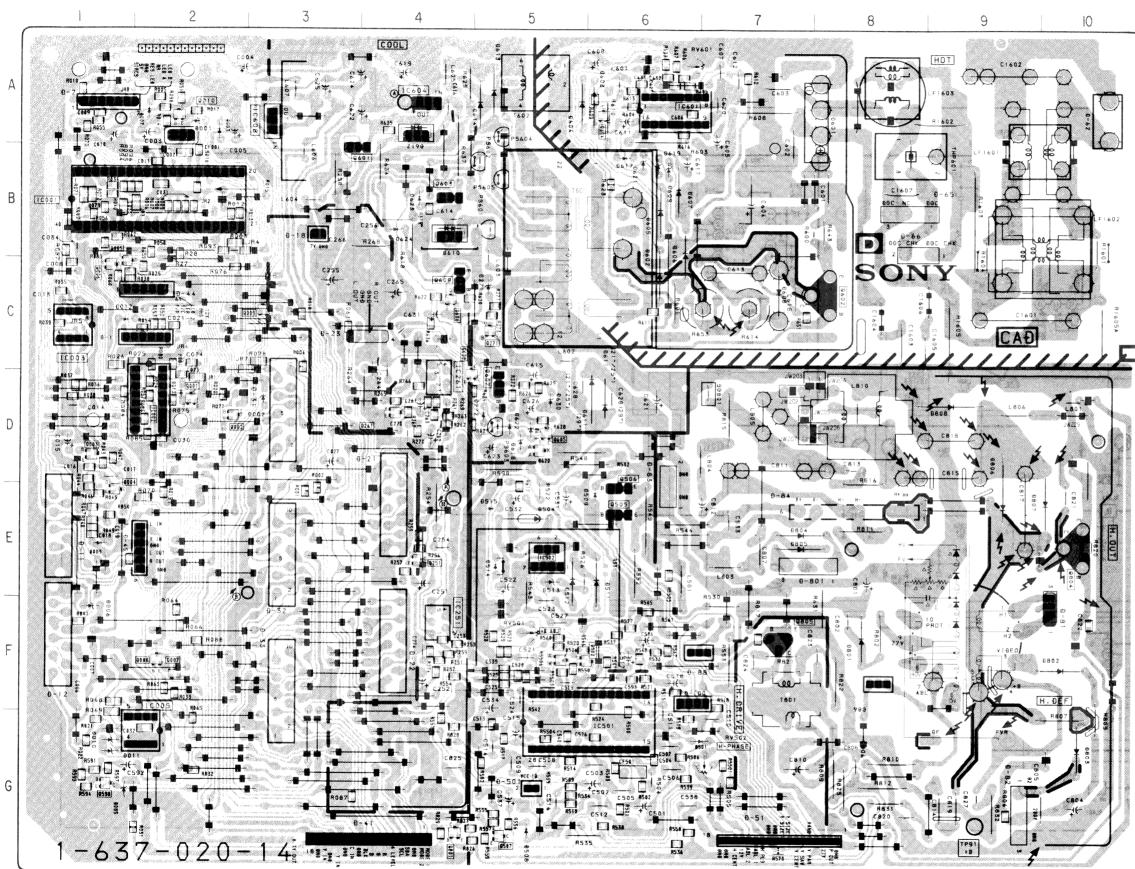




KV-X2151D RM-816 KV-X2151D RM-816



— D Board —



- D Board -

I	С	D012	C1
IC001	B-2	D013 D271	D-2 C-5
IC001	D-2	D272	D-5
IC003	C – 1	D501	G – 7
IC005	G-2	D504	E-5
IC251	F-4	D506	F – 5
IC261	D-4	D508	G-5
IC501 IC502	G-6 E-5	D509	E-6
IC601	A-6	D511 D512	E – 6 E – 5
IC604	A-4	D513	E5
IC608	A-3	D514	E - 5
		D515	E 5
		D601 D602	A-8 C-6
TRAN	SISTOR	D603	A6
Q001	D-2	D604	A-5
Q002	D-2	D605 D606	B-6 B-6
Q003	D-1	D607	B-6
Q004	E – 1	D608	C-7
Q005	C-1	D609	B-6
Q006	C-1	D610	B-4
0007	F-2 F-2	D611	D-6
Q008 Q009	C-3	D612 D613	A – 4 A – 5
Q010	A-2	D613	A-5
Q251	E-4	D616	D-5
Q261	D-4	D617	B-6
Q271	C-5	D618	D-5
Q502	F-6	D619	B-6
Ω505 Ω506	E-6 D-6	D620	D-5
Q507	G-5	D621 D622	B6 D-5
Q598	G-1	D623	B-4
Q601	B-3	D624	B-4
Q602	C-8	D630	D-5
Q603	B-4 A-6	D801	F-8
Q604 Q605	D-5	D802 D803	F – 10 G – 10
Q606	C-4	D804	E 7
Q607	D-5	D805	E 7
Q608	D – 4	D806	E - 9
Q609	C-4	D807	E-10
Q801 Q804	G – 4 E – 10	D808	D9
Q805	F-7	VARI	ABLE
		RESI	STOR
		RV501	F-5
DI	ODE	RV502	G - 7
	A-2	RV601	A-6
D001 D002	D-3		
D002	A-2		
D005	G-1	Т	- Р
D006	F – 1	·	
D007	A-2	TP91	G – 9
D009	E-1		
D010 D011	G-1 G-1	1	
	U-1	L	



D012 C-- 1 D013 D-2 D271 C-5 D272 D-5 D501 G-7 D504 E-5 D506 F-5 D508 G-5D509 E-6 D511 E-6 E -- 5 D512 D513 E-5 D514 E - 5 D515 E -- 5 D601 A -- 8 D602 C-6D603 A-6 D604 A-5 D605 B-6 D606 B-6 D607 B-6D608 C-7D609 B-6D610 B-4D611 D-6 D612 A – 4 A -- 5 D613 D614 A-5 D616 D-5 D617 B-6 D618 D-5 D619 B-6 D620 D-5 D621 B--6 D622 D-5 D623 B-4D624 B-4 D630 D-5 D801 F – 8 D802 D803 F-10 G-- 10 D804 E -- 7 D805 E -- 7 D806 E - 9 D807 E-10

VARIABLE RESISTOR

D--9

RV501 F-5 RV502 G-7 RV601 A-6

TP G-9



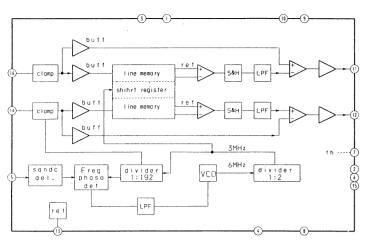
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

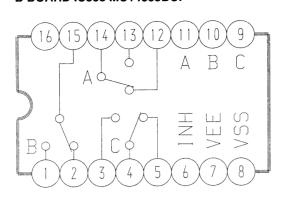
KV-X2151D RM-816

KV-X2151D RM-816

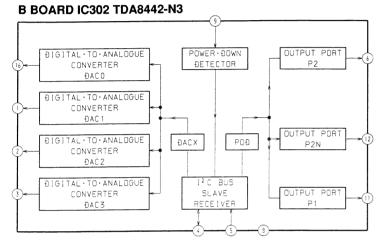
B BOARD IC332 TDA4660V2

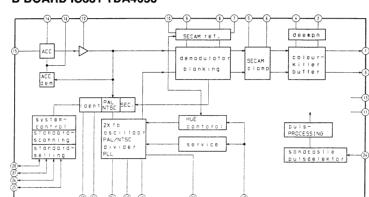


B BOARD IC303 MC14053BCP

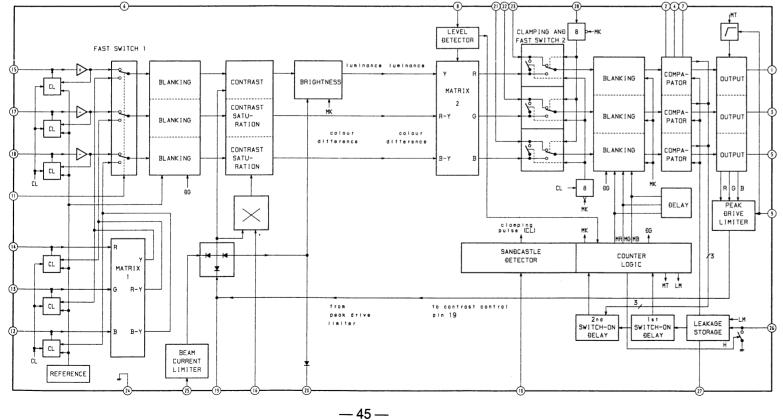


B BOARD IC331 TDA4650





B BOARD IC301 TDA4580-V7



- B Board -

(I) [M, [M, [2
PAL. SECAM 4.8Vp-p (H)	NTSC 3.58/4.43 4.8 Vp-p(H)	PAL, SECAM 4.8 Vp-p (H)
2	3)	3 3
NTSC 3.58/4.43	PAL. SECAM	NTSC 3.58/4.43
4.8Vp-p(H)	4.8Vp-p(H)	4.8Vp-p (H)
	Jumyl (2 Jumy
1 Vp-p (H)	PAL 0.4Vp-p (H)	SECAM 0.36 Vp-p(H)
(E)	-	(E)
NTSC 3.58/4.43 0.46Vp-p(H)	PAL, SECAM 0.9Vp-p (H)	NTSC 3.58/4.43 0.7Vp-p (H)
7		8
PAL, SECAM		PAL
1.1Vp-p(H) (8)	1 Vp-p (H) (8)	0.5Vp-p(H)
- <u></u>		
SECAM 1.1 Vp-p (H)	NTSC 3.58/4.43 0.4Vp-p (H)	PAL 0.6Vp-p(H)
##\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
SECAM 1.3Vp-p (H)	NTSC 3.58/4.43 0.6 Vp-p(H)	SECAM 1.4 Vp-p (H)
	12	13
	The market of the self-	
SECAM	PAI PAI	SECAM
SECAM 0.2Vp-p(H)	PAL 0.2Vp-p (H)	SECAM 0.12Vp-p (H)
0.2Vp-p(H)	PAL	SECAM 0.12/p-p (H)
0.2Vp-p (H)	PAL 0.2Vp-p (H) 13 PAL	SECAM 0.12Vp-p(H) (3) SECAM
0.2Vp-p (H) 12 NTSC 3.58/4.43	PAL 0.2Vp-p(H)	SECAM 0.12Vp-p(H)
0.2Vp-p (H) 12 NTSC 3.58/4.43 0.05Vp-p (H)	PAL 0.2Vp-p (H) PAL 0.4Vp-p (H)	SECAM 0.12Vp-p(H) (3) SECAM 0.1 Vp-p(H)
0.2Vp-p(H) 12 NTSC 3.58/4.43 0.05Vp-p(H)	PAL 0.2 Vp-p (H) PAL 0.4 Vp-p (H) PAL 1 Vp-p (H)	SECAM 0.12/p-p(H) SECAM 0.1 Vp-p(H) (4) SECAM 1 Vp-p(H)
0.2 Vp-p (H) 12 NTSC 3.58/4.43 0.05Vp-p (H) 13 NTSC 3.58/4.43 0.4 Vp-p (H)	PAL 0.2Vp-p (H) 13 PAL 0.4Vp-p (H) 12 PAL 1 Vp-p (H)	SECAM 0.12/p-p(H) SECAM 0.1 Vp-p(H) 14 SECAM 1 Vp-p(H)
0.2 Vp-p (H) 12 NTSC 3.58/4.43 0.05Vp-p (H) 13 NTSC 3.58/4.43 0.4 Vp-p (H) 14 NTSC 3.58/4.43 1.1 Vp-p (H)	PAL 0.2Vp-p (H) 13 PAL 0.4Vp-p (H) 14 PAL 1 Vp-p (H) 15 PAL 1 Vp-p (H)	SECAM 0.12/p-p(H) SECAM 0.1 Vp-p(H) (4) SECAM 1 Vp-p(H)
0.2 Vp-p (H) 12 NTSC 3.58/4.43 0.05Vp-p (H) 13 NTSC 3.58/4.43 0.4 Vp-p (H) 14 NTSC 3.58/4.43	PAL 0.2Vp-p (H) 13 PAL 0.4Vp-p (H) 12 PAL 1 Vp-p (H) 15 PAL 1 PAL	SECAM 0.12/p-p(H) SECAM 0.1 Vp-p(H) SECAM 1 Vp-p(H) SECAM 1 Vp-p(H)
0.2 Vp-p (H) 12 NTSC 3.58/4.43 0.05Vp-p (H) 13 NTSC 3.58/4.43 0.4 Vp-p (H) 14 NTSC 3.58/4.43 1.1 Vp-p (H)	PAL 0.2Vp-p (H) 13 PAL 0.4Vp-p (H) 14 PAL 1 Vp-p (H) 15 PAL 1 Vp-p (H)	SECAM 0.12/p-p(H) SECAM 0.1 Vp-p(H) (A) SECAM 1 Vp-p(H) (B) SECAM 1 Vp-p(H)

- B Board -

D D	varu —		
IC301	TĐA4580-V7	VIĐEO PROCESSOR	
IC302	TĐA8442-N3	Đ/A CONVERTER IC BUS	
IC303	MC14053BCP	Y/C COMP SW	
IC331	TĐA4650-V4	COLOR PROCESSOR	
IC332	TĐA4660V2	1H-ĐELAY	
Q301	25C2412K	Y BUFFER	
Q303	25C2412K	STBY SW	
Q305	ĐTA144EK	ANTI PRIORITY SCART	
Q306	JC501TP	VIĐEO BUFF	
Q311	2SC2412K	ON SCREEN DISPLAY SW	
Q312	25C2412K	CANAL +BLK	
Q313	25C2412K	ON SCREEN DISPLAY	
Q316	2SC2412K	FAS PICTURE MUTE SW	
Q330	25A1037K	VIĐEO AMP	
Q331	ĐTC124EK	NTSC SW	
Q332	25A1037K	VIĐEO BUFF	
Q333	25A1037K	Y AMP	
Q334	25C2412K	PAL/NTSC SW	
Q335	25C2412K	SECAM SW	
Q381	ĐTC124EK	MUTE	
Q382	25C2412K	ABL	
Q1301	ĐTC124EK	Y BUFF	
Q1306	25C2412K	Y DUT	
Ð301	155133	ACO AT STBY	
£302	155133	ACO AT STBY	
Đ303	155133	ACO AT STBY	
Ð304	155133	ĐECOUPLING BLK	
Đ305	155133	PROTECT	
Đ307	MTZ11CJ	PROTECT	
£309	155133	PROTECT	
Ð310	MTZ11CJ	PROTECT	
Đ311	MTZ11CJ	PROTECT	
Đ312	MTZ11CJ	PROTECT	
Đ313	155133	PROTECT	
Đ314	155133	PROTECT	
Đ315	155133	PROTECT	
Đ316	155133	PROTECT	
Đ317	155133	PROTECT	
Ð318	155133	PROTECT	
Đ319	155133	PROTECT	
Đ320	155133	PROTECT	
Đ331	155133	SECAM SW	
Đ332	155133	SECAM SW	
Đ333	155133	SECAM SW	
Đ350	MTZ5.6CJ	PROTECT	

Α

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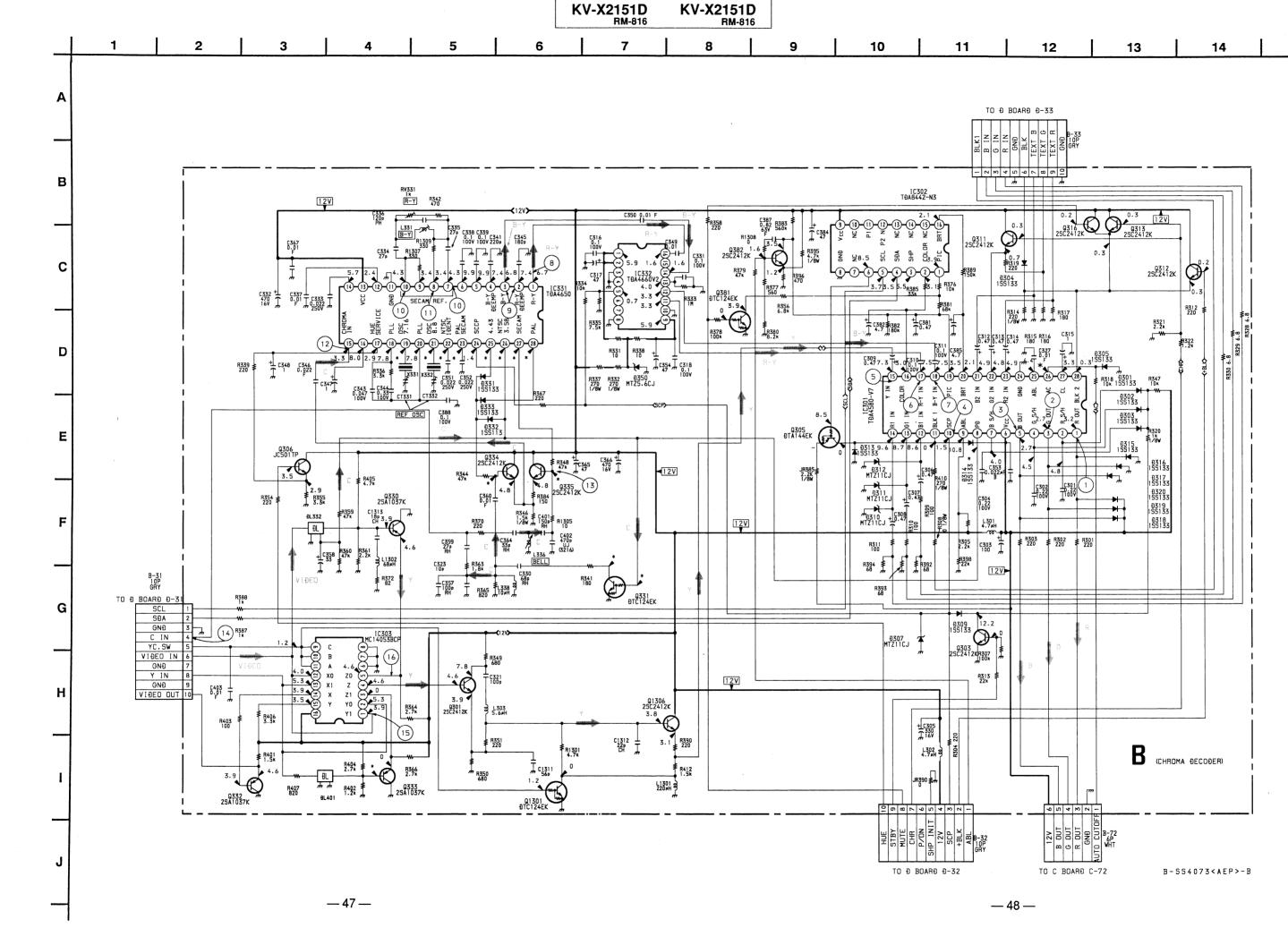
G

— B Board —

— 46 —

As to the voltage volue shown by the mark \divideontimes on the Schematic Diagram, see the another list.

	PAL	SECAM	NTSC3.58	NTSC4.43
10301	0.1	0.1	5.8	0.1
	6.7	6.8	5.1	5.1
10331 (19)	3.1	3.6	3.1	2.8
1 0	3.0	3.5	2.9	2.7
1 0	5.6	5.6	7.1	7.2
1 3	7.5	7.0	5.6	5.6
1 3	0.1	0.1	0.1	5.8
1 1	0.1	0.1	5.8	0.1
1 0	0.1	5.8	0.1	0.1
	5.9	0.1	0.1	0.1
0331 (B)	0.1	0.1	5.8	0.1
(C)	1.5	1.9	0	0.8
Q333 (B)	3.4	4.4	4.4	4.4
Q334 (B)	4.9	0.1	4.8	4.8
Q335 (B)	0.1	4.8	0.1	0.1



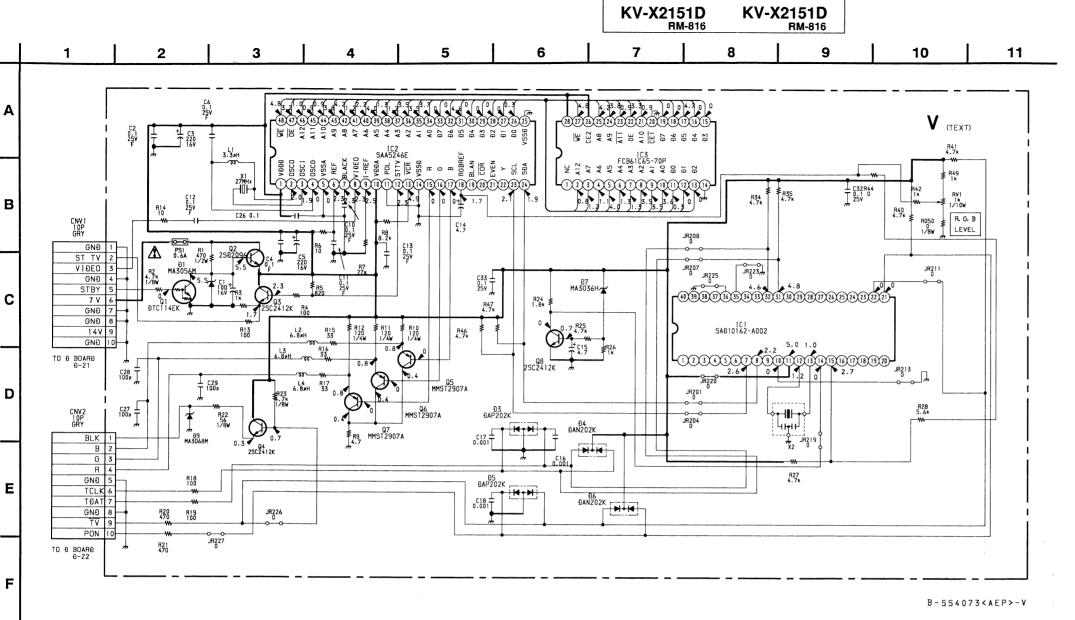
15

SSOR ER IC BUS

TY SCART ISPLAY SW

ISPLAY MUTE SW

SSOR

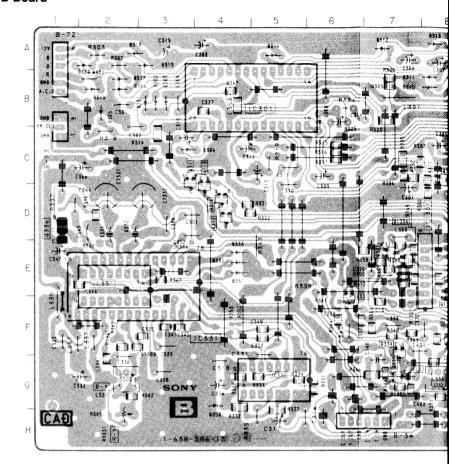


— V Board —

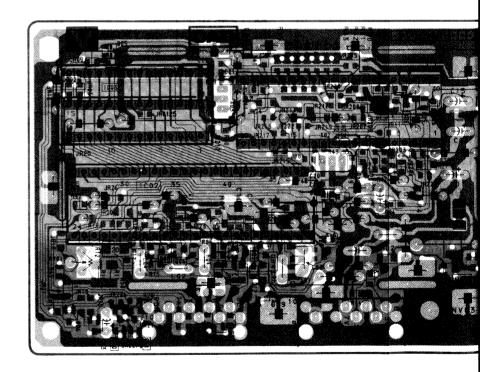
IC1	SĐA20162-B002	MICRO-CONT
IC2	SAA5246E	IVT
IC3	FCB61C65L-70P	STATIC-RAM
Q1	ĐTC114EK	STANĐ BY
Q2	2502096	5V REG .
Q3	25C2412K	SYNC BUFFER
Q4	2SC2412K	BLK OUT
Q5	MMST2907A	B OUT
9.0	MMST2907A	G DUT
Q7	MMST2907A	R DUT
8.0	25C2412K	P ON SW
Ð1	MA3056M	5V REG
Đ3	ĐAP202K	PROTECT
Đ4	ĐAN202K	PROTECT
Đ5	ĐAP202K	PROTECT
Ð6	ĐAN202K	PROTECT
Đ7	MA3036H	PROTECT
Đ9	MA3068M	PROTECT

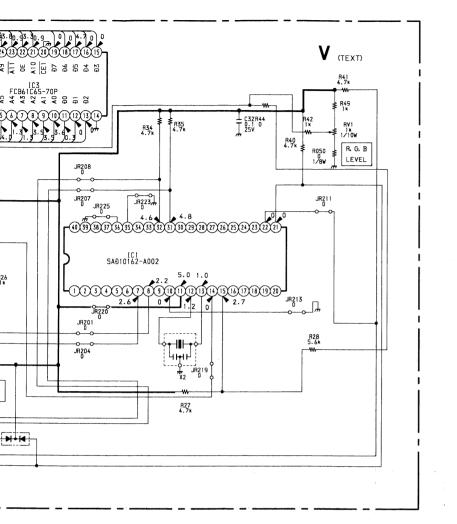


- B Board -

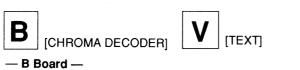


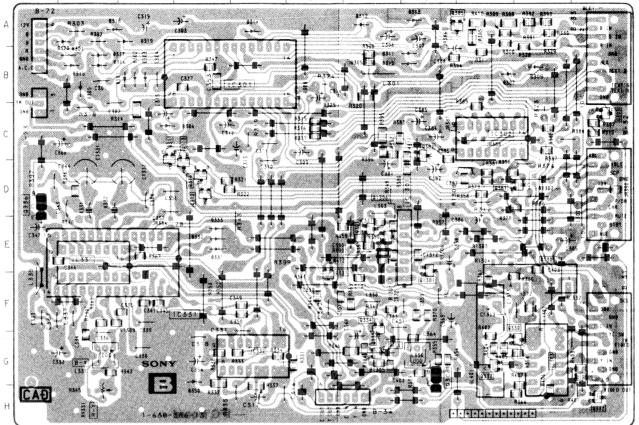
- V Board -









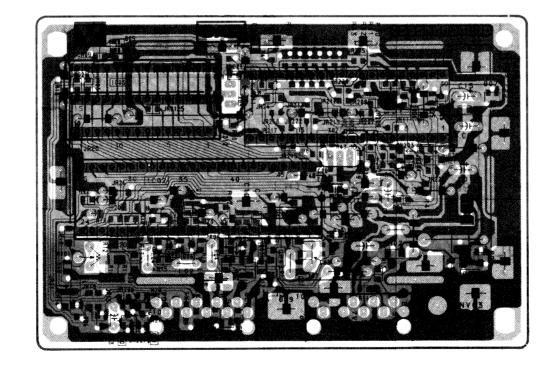


— B Board —

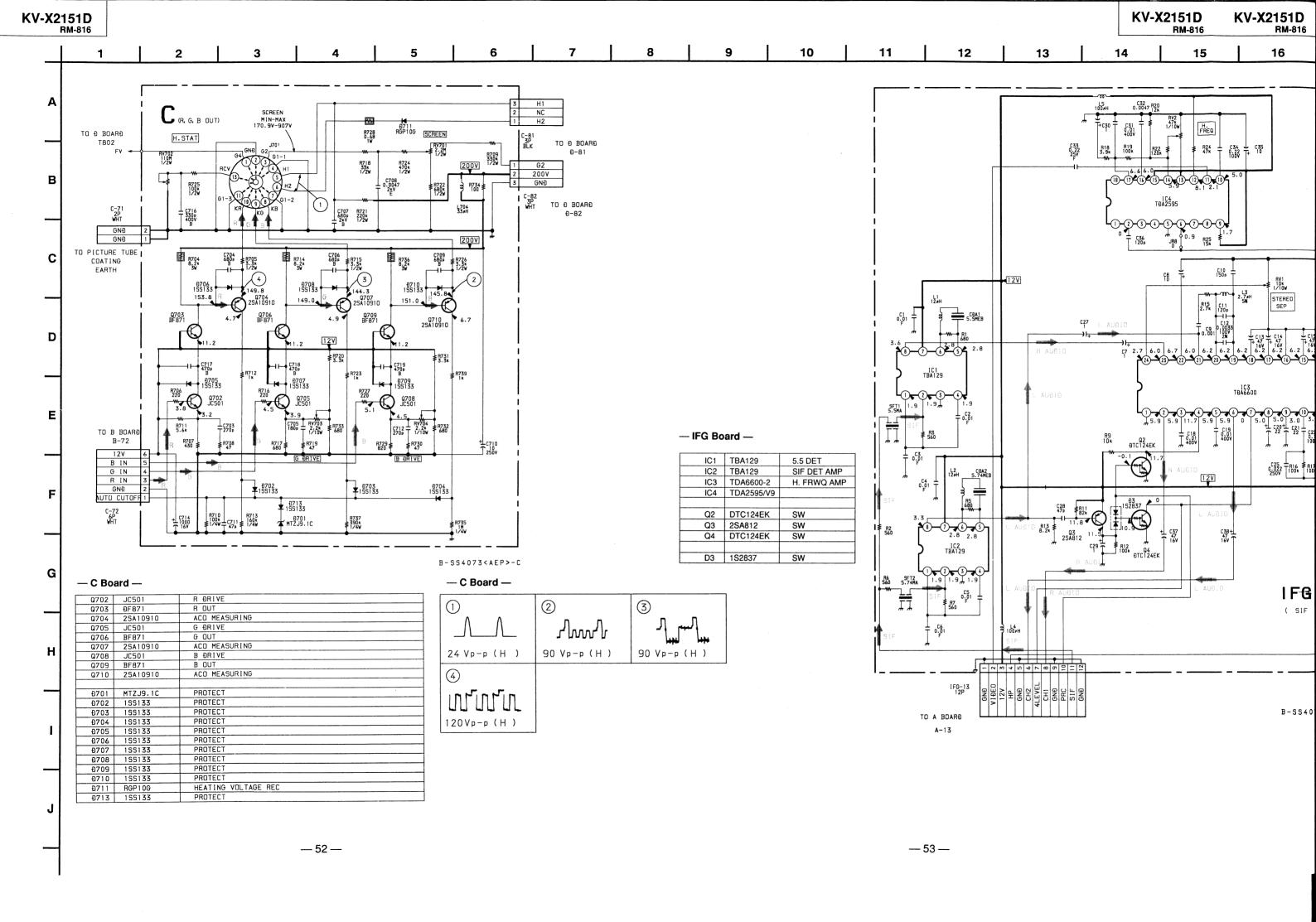
I	С	D304 D305	C-3 B-2
IC301 IC302 IC303 IC331 IC332	B-5 C-9 G-10 E-2 G-5	D303 D307 D309 D310 D311 D312	B-2 B-9 B-10 B-8 B-8 A-7 A-8
TRANS	SISTOR	D314	A – 5
Q301 Q303 Q305 Q306 Q311 Q312 Q313 Q316 Q330 Q331	0301 E - 7 0303 C - 11 0305 A - 9 0306 G - 9 0311 C - 3 0312 D - 4 0313 C - 4 0316 D - 4 0330 G - 10	D315 D316 D317 D318 D319 D320 D331 D332 D333 D350	B - 2 B - 2 B - 2 A - 2 A - 3 A - 2 E - 4 E - 4 G - 4
Q332 Q333	H – 11 G – 9	TRIN	MER
Q334 Q335 Q381	F – 7 G – 8 D – 10	CT331 CT332	D - 2 D - 3
Q382 Q1301	C - 8 E - 8		ABLE STOR
Q1306	E – 7	RV331	H – 2
DIC	DDE		
D301 D302 D303	B-3 B-3 B-3		

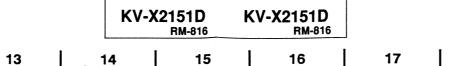
--- V Board ---

B-SS4073 < AEP>-V



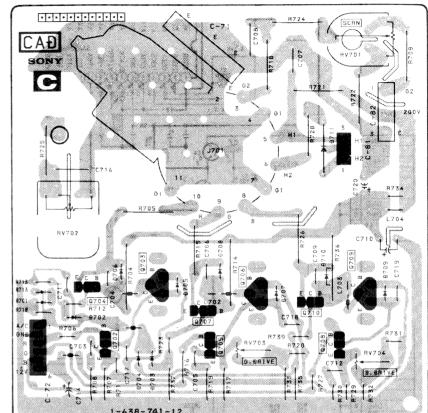
- Conductor side pattern
- Component side pattern

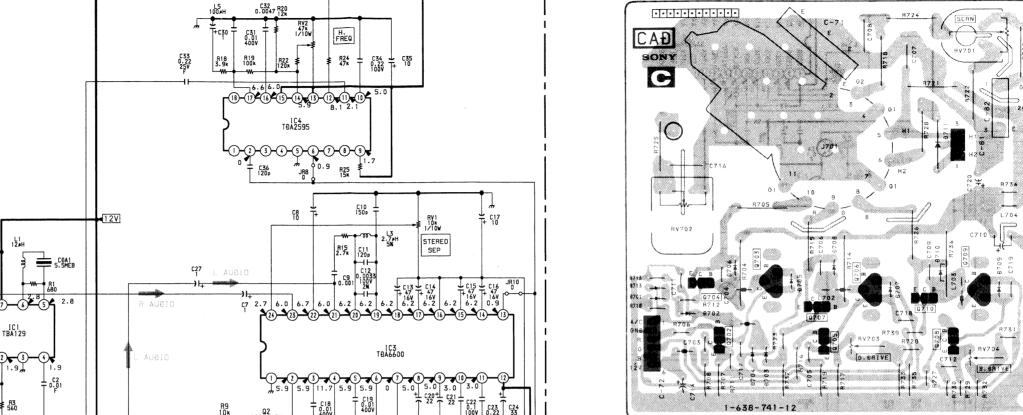






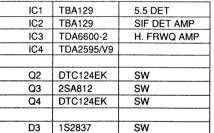






- IFG Board -

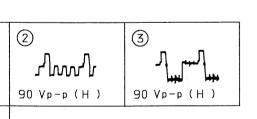
IC1	TBA129	5.5 DET
IC2	TBA129	SIF DET AMP
IC3	TDA6600-2	H. FRWQ AMP
IC4	TDA2595/V9	
Q2	DTC124EK	SW
Q3	2SA812	SW
Q4	DTC124EK	SW
D3	192027	C/M/



10

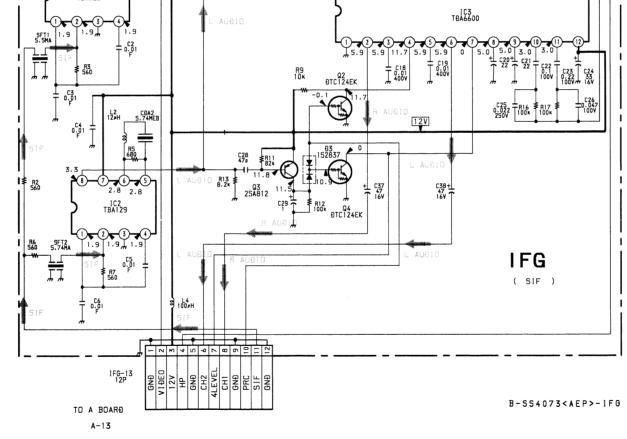
11

12

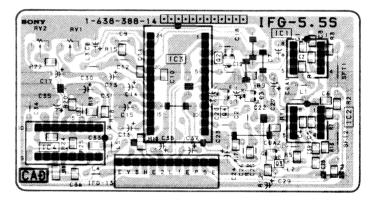


TO Đ BOARĐ

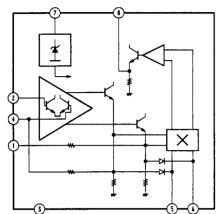
TO Đ BOARĐ

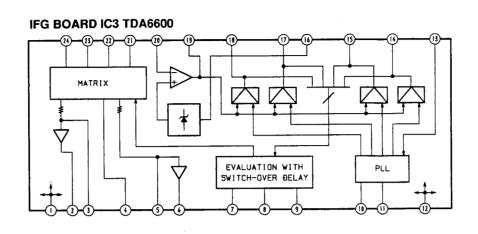


- IFG Board -

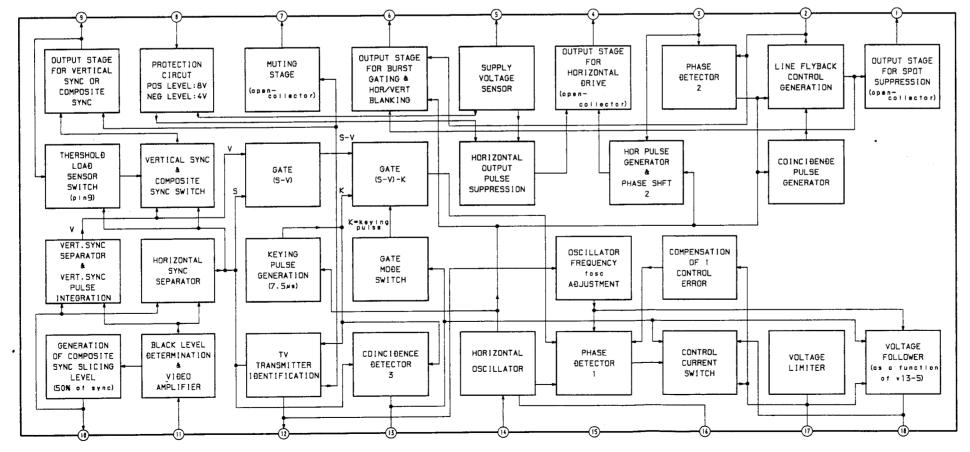


IFG BOARD IC1/IC2 TBA129





IFG BOARD IC4 TDA2595



5-4. SEMICONDUCTORS

BU14053B
HD14053BFP
MC14051BCP
MC14053BCP
PCF8574
TDA2545A-V4
TDA4660V2
TDA8442-N3
TEA2260
μ PD4053BC

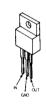


(Top view)

CXA1114P CXK5864BP-10L FCB61C65L-70P TC5565APL-15L TDA4580-V7 TDA4650 TDA4650/V4 TDA6200 TEA2028B



LM7812CT TDA8341/N6 **TEA7605**



RC4558P SDA2546 **TBA129 TEA2014A** TEA2031A



SAA5246P/E



SBX1610-11



SDA20162-B002 SDA20560-A012



(Top view)











(Top view)



(Top view)

TDA8170



BF871



DTA144EK DTC114EK DTC124EK DTC144EK MMST2907A 2SA1162-G 2SA1623-L5L6 2SB1295-UL6 2SC1623-L5L6 2SA812 2SA1037K







2SC2412K



JC501TP-Q 2SC2785-HFE



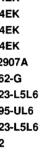
2SA1091-0 2SA10910





2SA1220A-P

2SB1357T114EF



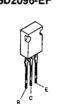


2SB734-34

2SD774-34



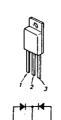
2SD2096-EF











DAN202K 1S2836



DAP202K



DA204K **1SS226**

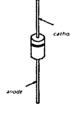




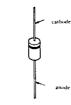
D4SB60L-F



EGP20G



ERC06-15S ERC25-06S RGP10GPKG23 RU-3AM



ERD28-08S GP08DPKG23 RGP02-17



ERD29-08J



RGP15J





HZS10NB3 HZS11NB3 HZS13NB2 HZS15NB1

HZS33NB1

HZS36NB4 HZS3.9NB2 HZS4.7NB2

HZS5.6NB2

HZS5.6NB3

HZS6.2NB2

HZS6.8NB3

HZS7.5NB3

HZS9.1NB3

MTZJ-11C

MTZJ-13B

MTZJ-15A

MTZJ-33A

MTZJ-36D

MTZJ-3.9B

MTZJ-4.7B

MTZJ-5.6B

MTZJ-5.6C

MTZJ-6.2B

MTZJ-6.8C

MTZJ-7.5C MTZJ-9.1C MTZJ-10C

RD11ESB3 RD13ESB2 RD15ESB1 RD5.6ESB2 RD6.2ESB2

RD6.2ESL3

RD6.8ESB2

RD7.5ESB2

RD9.1ESB3

UZ-4.7BSC

CATODO

1SS119 1SS133





LD-201VR



MA152WK **1S2837**





MA3036H MA3056M MA3068M RD3.6M-B2 RD5.6M-B2 RD6.8M-B2









SECTION 6 EXPLODED VIEWS

NOTE:

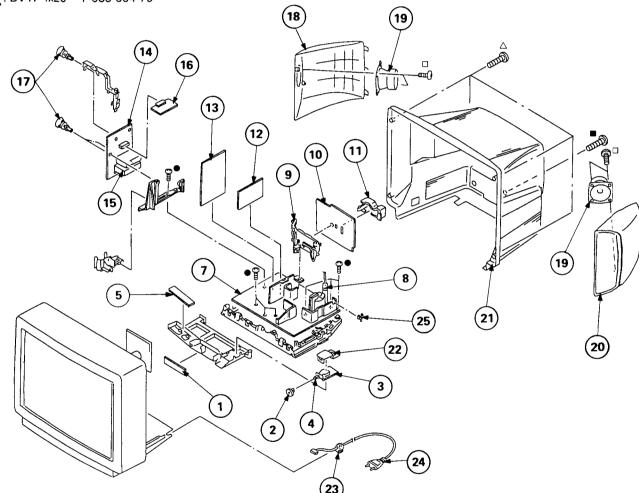
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items

The components identified by shading and mark ∆ are critical for safety.

Replace only with part number specified.

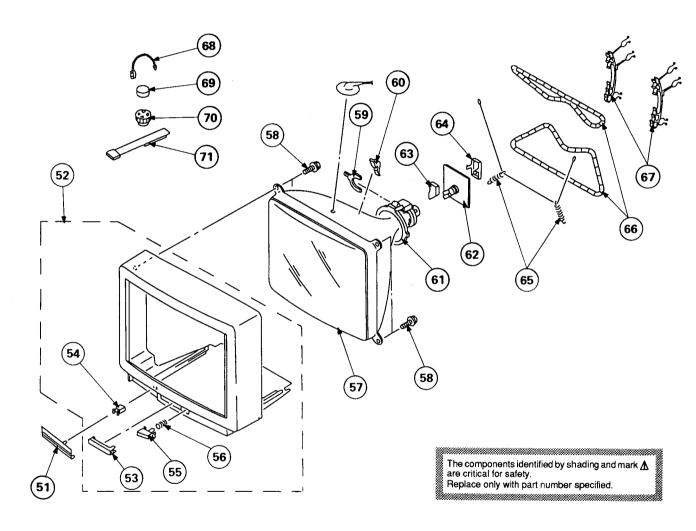
6-1. CHASSIS

SVTP3x12 7-685-648-79
BVTP4x16 7-685-663-79
BVTP3x20 7-685-651-79
↑: BVTP4x20 7-685-664-79



		\bigcirc		
REF.NO. PART NO.	DESCRIPTION REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
5 *1-638-744-11 7 *A-1642-067-A 8 A.1-439-416-51 9 *4-386-624-01	H2 BOARD COVER, SWITCH F BOARD SWITCH, PUSH (AC POWER) H1 BOARD D BOARD, COMPLETE TRANSFORMER ASSY, FLYBACK (UX-1650) BRACKET, J J1 BOARD, COMPLETE BRACKET, TERMINAL V BOARD, COMPLETE B BOARD, COMPLETE B BOARD, COMPLETE	15 A.1-465-301-11	A BOARD, COMPLETE TUNER, ET (UV-816(PLL)) IFG BOARD, COMPLETE RIVET, T TYPE BAFFLE BOARD ASSY (L) SPEAKER (7.5X13CM) BAFFLE BOARD ASSY (R) COVER, REAR COVER, REAR COVER, POWER SWITCH HOLDER, AC CORD CORD, POWER (WITH NOISE FILTER) HOLDER, WIRE	

6-2. PICTURE TUBE



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PART NO.	DESCRIPTION	REMARK
51 4-200-939-01 52 X-4200-091-1 53 4-200-148-01 54 4-392-036-01 55 4-200-886-11 56 4-329-112-00 57 \(\text{A} \).8-738-758-05 58 4-382-733-01 59 1-452-277-00 60 3-704-495-01 61 \(\text{A} \).1-451-295-11	DOOR (PAINTED) CABINET ASSY (WITH BEZEL ASSY) WINDOW, ORNAMENTAL CATCHER, PUSH BUTTON, POWER SPRING PICTURE TUBE (A51JXH61X) SCREW (S), PT MAGNET, BMC SPACER, DY DEFLECTION YOKE (Y21PFA2)	53~56	62 *A-1638-018-A 63 *4-379-167-01 64 *4-379-160-01 65 4-200-433-11 66 A.1-426-383-11 67 *4-386-622-11 68 4-308-870-00 69 1-452-032-00 70 1-452-094-00 71 X-4309-608-0	COVER (MAIN), CV COVER (REAR LID), CV SPRING, EXTENSION COIL, DEMAGNETIZATION BAND, DGC CLIP, LEAD WIRE MAGNET, DISK: 10MM MAGNET, ROTATABLE DISK; 15MM MA	

SECTION 7 ELECTRICAL PARTS LIST

В

NOTE:

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

When indicating parts by reference number, please include the board name.

CAPACITORS
• MF: μF, PF: μμF

COILS • MMH: mH, UH: μΗ

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- · All resistors are in ohms
- F: nonflammable

REF.NC). PART NO.	DESCRIPTION		REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
		B BOARD, COMPLETE ***********************************			C351 C352 C353 C354 C357	1-137-102-11 1-137-102-11 1-163-063-00 1-124-910-11	FILM 0.022MF FILM 0.022MF CERAMIC CHIP 0.022MF ELECT 47MF CERAMIC CHIP 100PF	10% 10% 10% 20% 5%	250V 250V 50V 50V 50V
B31 B32 B33 B72	*1-565-393-11 *1-565-393-11 *1-568-881-51	CONNECTOR, BOARD TO BO CONNECTOR, BOARD TO BO CONNECTOR, BOARD TO BO PIN, CONNECTOR 6P	ARD ARD ARD		C358 C359 C360 C364 C365	1-124-917-11 1-163-103-00 1-101-004-00	ELECT 33MF CERAMIC CHIP 27PF	20% 5% 5% 20%	50V 50V 50V 50V 50V
C301 C302 C303 C304 C305	1-137-031-11 1-137-031-11 1-124-122-11 1-137-031-11	ACITOR> FILM 0.22MF FILM 0.22MF ELECT 100MF FILM 0.22MF ELECT 330MF	10% 10% 20% 10% 20%	100V 100V 50V 100V 16V	C366 C367 C381 C382 C384	1-126-103-11 1-101-004-00 1-124-902-00 1-124-927-11 1-124-910-11	ELECT 0.47MF	20% 20% 20% 20%	16V 50V 50V 50V 50V
C306 C307 C308 C309 C310	1-124-902-00 1-124-902-00 1-124-902-00 1-124-902-00	ELECT 0.47MF ELECT 0.47MF ELECT 0.47MF ELECT 0.47MF FILM 0.1MF	20% 20% 20% 20% 20%	50V 50V 50V 50V 100V	C385 C387 C388 C401 C402		FILM 0.82MF FILM 0.1MF CERAMIC 150PF CERAMIC CHIP 470PF	20% 10% 10% 5% 5%	50V 63V 100V 50V 50V
C311 C312 C313 C314 C315	1-137-098-11 1-124-902-00 1-124-902-00 1-124-902-00 1-124-903-11	FILM 0.1MF ELECT 0.47MF ELECT 0.47MF ELECT 0.47MF ELECT 1MF	10% 20% 20% 20% 20% 20%	100V 50V 50V 50V 50V	C403 C1311 C1312 C1313	1-163-111-00 1-163-235-11 1-102-953-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 56PF CERAMIC CHIP 22PF CERAMIC 18PF	5% 5% 5%	50V 50V 50V 50V
C316 C317 C318 C321 C323	1-137-098-11 1-124-910-11 1-137-098-11 1-163-117-00 1-102-947-00	FILM 0.1MF ELECT 47MF FILM 0.1MF CERAMIC CHIP 100PF CERAMIC 10PF	10% 20% 10% 5% 0.5PF	100V 50V 100V 50V 50V	CT331 CT332	1-141-181-11 1-141-181-11 <dic< td=""><td>CAP, TRIMMER</td><td></td><td></td></dic<>	CAP, TRIMMER		
C327 C330 C331 C332 C333	1-163-031-11 1-163-113-00 1-137-098-11 1-126-103-11 1-137-102-11	CERAMIC CHIP 0.01MF CERAMIC CHIP 68PF FILM 0.1MF ELECT 470MF FILM 0.022MF	5% 10% 20% 10%	50V 50V 100V 16V 250V	D301 D302 D303 D304 D305	8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		
C334 C335 C336 C337 C338	1-163-237-11 1-102-816-00 1-101-004-00 1-137-098-11		5% 5% 5% 10%	50V 50V 50V 50V 100V	D307 D309 D310 D311 D312	8-719-110-23 8-719-911-19 8-719-110-23 8-719-110-23	DIODE RD11ES-B3 DIODE 1SS119 DIODE RD11ES-B3		
C339 C341 C343 C344 C345	1-163-125-00 1-137-094-11 1-137-033-11 1-163-123-00	FILM 0.1MF CERAMIC CHIP 220PF FILM 0.047MF FILM 0.33MF CERAMIC CHIP 180PF	10% 5% 10% 10% 5%	100V 50V 100V 100V 50V	D313 D314 D315 D316 D317	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		
C346 C347 C348 C349 C350	1-163-033-00 1-124-903-11 1-124-903-11 1-163-031-11 1-163-031-11	CERAMIC CHIP 0.022MF ELECT 1MF ELECT 1MF CERAMIC CHIP 0.01MF CERAMIC CHIP 0.01MF	20% 20%	50V 50V 50V 50V 50V	D318 D319 D320 D331	8-719-911-19 8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119		



\$2.50 \$7.99-91-19 \$1000 \$185119 \$313 \$-246-681-00 \$ETAL GLAZE \$28 \$51 \$1000 \$1000 \$85.685-82 \$836 \$-126-683-00 \$ETAL GLAZE \$20 \$52 \$1000 \$85.685-82 \$836 \$-126-683-00 \$ETAL GLAZE \$20 \$52 \$1000 \$8131 \$-126-683-00 \$ETAL GLAZE \$20 \$52 \$1000 \$8131 \$-126-683-00 \$ETAL GLAZE \$20 \$52 \$1000 \$20 \$1000 \$20	REF.NO.	PART NO.	DESCRIPTION		R -	EMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
Q301 8-729-120-28 TRANSISTOR 2SC1623-L516 R350 1-216-045-00 METAL GLAZE 20 5% 1/10W Q306 8-729-190-10 TRANSISTOR DYC144EK R354 1-216-033-00 METAL GLAZE 220 5% 1/10W Q306 8-729-190-28 TRANSISTOR DYC144EK R354 1-216-033-00 METAL GLAZE 220 5% 1/10W Q311 8-729-120-28 TRANSISTOR 2SC2628-HFE R355 1-216-061-00 METAL GLAZE 220 5% 1/10W Q312 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-069-00 METAL GLAZE 20 5% 1/10W Q313 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-089-00 METAL GLAZE 20 5% 1/10W Q313 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-089-00 METAL GLAZE 20 5% 1/10W Q331 8-729-120-28 TRANSISTOR 2SC1623-L516 R360 1-216-089-00 METAL GLAZE 47K 5% 1/10W Q331 8-729-216-22 TRANSISTOR 2SC1623-L516 R360 1-216-095-00 METAL GLAZE 47K 5% 1/10W Q331 8-729-216-22 TRANSISTOR 2SA1162-6 R364 1-216-055-00 METAL GLAZE 47K 5% 1/10W Q333 8-729-216-22 TRANSISTOR 2SA1162-6 R364 1-216-059-00 METAL GLAZE 47K 5% 1/10W Q334 8-729-120-28 TRANSISTOR 2SC1623-L516 R365 1-216-047-00 METAL GLAZE 47K 5% 1/10W Q334 8-729-120-28 TRANSISTOR 2SC1623-L516 R365 1-216-047-00 METAL GLAZE 20 5% 1/10W Q338 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-047-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 1-216-033-00 METAL GLAZE 20 5% 1/10W Q383	D332 D333 D350	8-719-911-19 8-719-911-19 8-719-109-89	DIODE 188119 DIODE 188119 DIODE RD5.6ES-	-B2			R313 R314	1-216-081-00	METAL GLAZE METAL GLAZE	22K 220	5% 5%		
Q301 8-729-120-28 TRANSISTOR 2SC1623-L516 R350 1-216-045-00 METAL GLAZE 20 5% 1/10W Q306 8-729-190-10 TRANSISTOR DYC144EK R354 1-216-033-00 METAL GLAZE 220 5% 1/10W Q306 8-729-190-28 TRANSISTOR DYC144EK R354 1-216-033-00 METAL GLAZE 220 5% 1/10W Q311 8-729-120-28 TRANSISTOR 2SC2628-HFE R355 1-216-061-00 METAL GLAZE 220 5% 1/10W Q312 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-069-00 METAL GLAZE 20 5% 1/10W Q313 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-089-00 METAL GLAZE 20 5% 1/10W Q313 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-089-00 METAL GLAZE 20 5% 1/10W Q331 8-729-120-28 TRANSISTOR 2SC1623-L516 R360 1-216-089-00 METAL GLAZE 47K 5% 1/10W Q331 8-729-216-22 TRANSISTOR 2SC1623-L516 R360 1-216-095-00 METAL GLAZE 47K 5% 1/10W Q331 8-729-216-22 TRANSISTOR 2SA1162-6 R364 1-216-055-00 METAL GLAZE 47K 5% 1/10W Q333 8-729-216-22 TRANSISTOR 2SA1162-6 R364 1-216-059-00 METAL GLAZE 47K 5% 1/10W Q334 8-729-120-28 TRANSISTOR 2SC1623-L516 R365 1-216-047-00 METAL GLAZE 47K 5% 1/10W Q334 8-729-120-28 TRANSISTOR 2SC1623-L516 R365 1-216-047-00 METAL GLAZE 20 5% 1/10W Q338 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-047-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 1-216-033-00 METAL GLAZE 20 5% 1/10W Q383	DL332	<del 1-236-062-11</del 	AY LINE>	AY LINE			R315 R316 R317 R318 R319	1-216-031-00 1-216-031-00 1-249-429-11	METAL GLAZE METAL GLAZE CARBON	180 180 10K	5% 5% 5% 5%	1/10W 1/10W 1/4W	
Q301 8-729-120-28 TRANSISTOR 2SC1623-L516 R350 1-216-045-00 METAL GLAZE 20 5% 1/10W Q306 8-729-190-10 TRANSISTOR DYC144EK R354 1-216-033-00 METAL GLAZE 220 5% 1/10W Q306 8-729-190-28 TRANSISTOR DYC144EK R354 1-216-033-00 METAL GLAZE 220 5% 1/10W Q311 8-729-120-28 TRANSISTOR 2SC2628-HFE R355 1-216-061-00 METAL GLAZE 220 5% 1/10W Q312 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-069-00 METAL GLAZE 20 5% 1/10W Q313 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-089-00 METAL GLAZE 20 5% 1/10W Q313 8-729-120-28 TRANSISTOR 2SC1623-L516 R356 1-216-089-00 METAL GLAZE 20 5% 1/10W Q331 8-729-120-28 TRANSISTOR 2SC1623-L516 R360 1-216-089-00 METAL GLAZE 47K 5% 1/10W Q331 8-729-216-22 TRANSISTOR 2SC1623-L516 R360 1-216-095-00 METAL GLAZE 47K 5% 1/10W Q331 8-729-216-22 TRANSISTOR 2SA1162-6 R364 1-216-055-00 METAL GLAZE 47K 5% 1/10W Q333 8-729-216-22 TRANSISTOR 2SA1162-6 R364 1-216-059-00 METAL GLAZE 47K 5% 1/10W Q334 8-729-120-28 TRANSISTOR 2SC1623-L516 R365 1-216-047-00 METAL GLAZE 47K 5% 1/10W Q334 8-729-120-28 TRANSISTOR 2SC1623-L516 R365 1-216-047-00 METAL GLAZE 20 5% 1/10W Q338 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-047-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 8-729-120-28 TRANSISTOR 2SC1623-L516 R367 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 1-216-033-00 METAL GLAZE 20 5% 1/10W Q382 1-216-033-00 METAL GLAZE 20 5% 1/10W Q383	VL4U1	1-415-613-11 <1C>	DELAY LINE, Y				R320 R321 R322 R328	1-216-065-00 1-216-051-00 1-216-311-00	METAL GLAZE	1K 4.7K 1.2K 6.8	5% 5% 5%	1/10W 1/10W	
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Q382 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R372 1-216-023-00 METAL GLAZE 82 5% 1/10W R376 1-249-429-11 CARBON 10K 5% 1/4W R377 1-216-037-00 METAL GLAZE 82 5% 1/10W R377 1-216-037-00 METAL GLAZE 82 5% 1/10W R377 1-216-037-00 METAL GLAZE 82 5% 1/10W R379 1-216-037-00 METAL GLAZE 82 5% 1/10W R379 1-216-037-00 METAL GLAZE 82 5% 1/10W R380 1-216-071-00 METAL GLAZE 82 5% 1/10W R381 1-216-093-00 METAL GLAZE 82 5% 1/10W R382 1-216-107-00 METAL GLAZE 82 5% 1/10W R381 1-216-093-00 METAL GLAZE 82 5% 1/10W R382 1-216-107-00 METAL GLAZE 82 5% 1/10W R383 1-249-409-11 CARBON 220 5% 1/4W R383 1-216-115-00 METAL GLAZE 560K 5% 1/10W R383 1-249-409-11 CARBON 220 5% 1/4W R384 1-216-029-00 METAL GLAZE 560K 5% 1/10W R385 1-216-049-00 METAL GLAZE 1/10W R386 1-216-049-00 METAL GLAZE 1/10W R387 1-216-049-00 METAL GLAZE 1/10W R388 1-216-049-00 METAL GLAZE 1/10W R389 1-216-049-00 METAL GLAZE 1/10W R390 1-216-033-00 METAL GLAZE 2/20 5% 1/10W R390 1-216-033-00 METAL GLAZE 2/20 5% 1/10W R390 1-216-033-00 METAL GLAZE 2/20 5% 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 68 5%	0301 0303 0305 0306	8-729-120-28 8-729-120-28 8-729-901-06 8-729-119-78	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR DTA TRANSISTOR 2SC	1623-L5L6 1623-L5L6 144EK 2785-HFE			R350 R351 R354	1-216-045-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	680 220 220		1/10W 1/10W 1/10W	
Q382 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R372 1-216-023-00 METAL GLAZE SZ SZ 1/10W Q1301 8-729-901-00 TRANSISTOR DTC124EK R376 1-249-429-11 CARBON 10K SZ 1/10W Q1306 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R377 1-216-037-00 METAL GLAZE 82 SZ 1/10W Q1306 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R376 1-249-429-11 CARBON 10K SZ 1/10W Q1306 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R376 1-249-429-11 CARBON 10K SZ 1/10W Q1307 R308 1-216-023-00 METAL GLAZE 100K SZ 1/10W Q1308 R309 1-216-295-00 METAL GLAZE 2.2K SZ 1/10W Q1309 R300 1-216-295-00 METAL GLAZE 2.2K SZ 1/10W Q1301 R301 1-249-409-11 CARBON 220 SZ 1/4W Q1302 R303 1-249-409-11 CARBON 220 SZ 1/4W Q1303 R304 1-249-409-11 CARBON 220 SZ 1/4W Q1304 R305 1-216-057-00 METAL GLAZE 2.2K SZ 1/10W Q1305 R306 1-216-095-00 METAL GLAZE 2.2K SZ 1/10W Q1307 R306 1-216-095-00 METAL GLAZE 1/10W Q1308 R309 1-216-095-00 METAL GLAZE 1/10W Q1309 R309 R30	Q312 Q313 Q316	8-729-120-28 8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC TRANSISTOR 2SC	1623-L5L6 1623-L5L6 1623-L5L6 1623-L5L6			R356 R358 R359 R360	1-216-061-00 1-216-069-00 1-216-033-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 6.8K 220 47K 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
Q382 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R372 1-216-023-00 METAL GLAZE 82 5% 1/10W R376 1-249-429-11 CARBON 10K 5% 1/4W R377 1-216-037-00 METAL GLAZE 82 5% 1/10W R377 1-216-037-00 METAL GLAZE 82 5% 1/10W R377 1-216-037-00 METAL GLAZE 82 5% 1/10W R379 1-216-037-00 METAL GLAZE 82 5% 1/10W R379 1-216-037-00 METAL GLAZE 82 5% 1/10W R380 1-216-071-00 METAL GLAZE 82 5% 1/10W R381 1-216-093-00 METAL GLAZE 82 5% 1/10W R382 1-216-107-00 METAL GLAZE 82 5% 1/10W R381 1-216-093-00 METAL GLAZE 82 5% 1/10W R382 1-216-107-00 METAL GLAZE 82 5% 1/10W R383 1-249-409-11 CARBON 220 5% 1/4W R383 1-216-115-00 METAL GLAZE 560K 5% 1/10W R383 1-249-409-11 CARBON 220 5% 1/4W R384 1-216-029-00 METAL GLAZE 560K 5% 1/10W R385 1-216-049-00 METAL GLAZE 1/10W R386 1-216-049-00 METAL GLAZE 1/10W R387 1-216-049-00 METAL GLAZE 1/10W R388 1-216-049-00 METAL GLAZE 1/10W R389 1-216-049-00 METAL GLAZE 1/10W R390 1-216-033-00 METAL GLAZE 2/20 5% 1/10W R390 1-216-033-00 METAL GLAZE 2/20 5% 1/10W R390 1-216-033-00 METAL GLAZE 2/20 5% 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 68 5%	Q331	8-729-216-22 8-729-901-00	TRANSISTOR DTC	11162-6 1124EK			R361 R363	1-216-057-00 1-216-055-00	METAL GLAZE METAL GLAZE	2.2K 1.8K	5% 5%	1/10W 1/10W	
Q382 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R372 1-216-023-00 METAL GLAZE SZ SZ 1/10W Q1301 8-729-901-00 TRANSISTOR DTC124EK R376 1-249-429-11 CARBON 10K SZ 1/10W Q1306 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R377 1-216-037-00 METAL GLAZE 82 SZ 1/10W Q1306 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R376 1-249-429-11 CARBON 10K SZ 1/10W Q1306 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R376 1-249-429-11 CARBON 10K SZ 1/10W Q1307 R308 1-216-023-00 METAL GLAZE 100K SZ 1/10W Q1308 R309 1-216-295-00 METAL GLAZE 2.2K SZ 1/10W Q1309 R300 1-216-295-00 METAL GLAZE 2.2K SZ 1/10W Q1301 R301 1-249-409-11 CARBON 220 SZ 1/4W Q1302 R303 1-249-409-11 CARBON 220 SZ 1/4W Q1303 R304 1-249-409-11 CARBON 220 SZ 1/4W Q1304 R305 1-216-057-00 METAL GLAZE 2.2K SZ 1/10W Q1305 R306 1-216-095-00 METAL GLAZE 2.2K SZ 1/10W Q1307 R306 1-216-095-00 METAL GLAZE 1/10W Q1308 R309 1-216-095-00 METAL GLAZE 1/10W Q1309 R309 R30	Q332 Q333 Q334 Q335	8-729-216-22 8-729-216-22 8-729-120-28 8-729-120-28	TRANSISTOR 2SA TRANSISTOR 2SA TRANSISTOR 2SC TRANSISTOR 2SC	1162-G 11162-G 1623-L5L6 1623-L5L6			R364 R365 R366	1-216-059-00 1-216-047-00 1-216-059-00				1/10W 1/10W 1/10W	
R378	Q382 Q1301	8-729-120-28 8-729-901-00	TRANSISTOR 2SC TRANSISTOR DTC	1623-L5L6 124EK			R372 R376	1-216-023-00 1-249-429-11	METAL GLAZE METAL GLAZE CARBON	220 82 10K	5% 5% 5%	1/10W 1/10W 1/4W	
JR385 1-216-206-00 METAL GLAZE 2.2K 5% 1/8W R381 1-216-093-00 METAL GLAZE 68K 5% 1/10W R380 1-216-295-00 METAL GLAZE 0 5% 1/4W R301 1-249-409-11 CARBON 220 5% 1/4W R303 1-249-409-11 CARBON 220 5% 1/4W R303 1-249-409-11 CARBON 220 5% 1/4W R384 1-216-029-00 METAL GLAZE 560K 5% 1/10W R385 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R385 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R305 1-216-097-00 METAL GLAZE 2.2K 5% 1/10W R307 1-216-097-00 METAL GLAZE 2.2K 5% 1/10W R308 1-216-296-00 METAL GLAZE 100K 5% 1/10W R308 1-216-296-00 METAL GLAZE 100K 5% 1/10W R309 1-216-025-00 METAL GLAZE 100 5% 1/10W R309 1-216-025-00 METAL GLAZE 100 5% 1/10W R309 1-216-025-00 METAL GLAZE 100 5% 1/10W R311 1-216-025-00 METAL GLAZE 100 5% 1/10W R399 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 100 5% 1/10W R399 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 68 5% 1/10W R391 1-216-021-00 METAL G		< RF C	ISTOR>				R378	1-216-097-00	METAL GLAZE		5% 5%	1/10W	
R304 1-249-409-11 CARBON 220 5% 1/4W R385 1-216-049-00 METAL GLAZE 33K 5% 1/10W R387 1-216-057-00 METAL GLAZE 2.2K 5% 1/10W R387 1-216-049-00 METAL GLAZE 1K 5% 1/10W R3807 1-216-097-00 METAL GLAZE 100K 5% 1/10W R388 1-216-296-00 METAL GLAZE 100K 5% 1/10W R388 1-216-296-00 METAL GLAZE 100K 5% 1/10W R399 1-216-025-00 METAL GLAZE 100 5% 1/10W R399 1-216-021-00 METAL GLAZE 220 5% 1/10W R390 1-216-025-00 METAL GLAZE 100 5% 1/10W R390 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 68 5% 1/10W R391 1-216-021-00 META	JR390	1-216-206-00 1-216-295-00	METAL GLAZE METAL GLAZE	2.2K 5% 0 5%	1/10W		R380 R381	1-216-071-00 1-216-093-00	METAL GLAZE METAL GLAZE	8.2K 68K	5% 5% 5%	1/10W 1/10W	
R307 1-216-097-00 METAL GLAZE 100K 5% 1/10W R308 1-216-296-00 METAL GLAZE 0 5% 1/8W R389 1-216-101-00 METAL GLAZE 150K 5% 1/10W R309 1-216-025-00 METAL GLAZE 100 5% 1/10W R390 1-216-021-00 METAL GLAZE 220 5% 1/10W R310 1-216-025-00 METAL GLAZE 100 5% 1/10W R311 1-216-025-00 METAL GLAZE 100 5% 1/10W R311 1-216-025-00 METAL GLAZE 100 5% 1/10W R311 1-216-025-00 METAL GLAZE 68 5% 1/10W R311 1-216-025-00 METAL GLAZE 68 5% 1/10W	R302 R303	1-249-409-11 1-249-409-11	CARBON CARBON	-	1/4W 1/4W		R384 R385	1-216-029-00 1-216-085-00	METAL GLAZE METAL GLAZE	150 33K	5% 5% 5%	1/10W 1/10W	
R310 1-216-025-00 METAL GLAZE 100 5% 1/10W R393 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-025-00 METAL GLAZE 100 5% 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W R391 1-216-021-00 METAL GLAZE 68 5% 1/10W	K307	1-216-057-00 1-216-097-00	METAL GLAZE METAL GLAZE	220 5% 2.2K 5% 100K 5%	1/10W 1/10W		R388	1-216-049-00	METAL GLAZE	1 K		1/10W	
・ドラエネ T-Z1D-UZ5-UU METAL GLAZE 1UU 5% //UW K394 -216-021-00 METAL GLAZE 68 69 1/10位		1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE		1/10W 1/10W		R390 R392 R393	1-216-033-00 1-216-021-00 1-216-021-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 68 68	5% 5% 5%	1/10W 1/10W 1/10W	
R312 1-249-409-11 CARBON 220 5% 1/4W R395 1-216-214-00 METAL GLAZE 4.7K 5% 1/8W	R312		METAL GLAZE CARBON	220 5%					METAL GLAZE METAL GLAZE	68 4.7K		1/10W 1/8W	

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.



REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R396 1-216-041- R398 1-216-081- R401 1-216-053- R402 1-216-051- R403 1-216-025-	OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE	470 22K 1.5K 1.2K 100	5% 1/100 5% 1/100 5% 1/100 5% 1/100 5% 1/100	d d d	C109 C111 C115 C127 C128	1-163-133-00 1-124-925-11 1-124-925-11 1-124-122-11 1-124-910-11	ELECT Elect	470PF 2.2MF 2.2MF 100MF 47MF	5% 20% 20% 20% 20%	50V 50V 50V 50V
R404 1-216-059- R405 1-216-065- R406 1-216-061- R407 1-216-047- R410 1-216-184-	OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE	2.7K 4.7K 3.3K 820 270	5% 1/100 5% 1/100 5% 1/100 5% 1/100 5% 1/8₩	r) r) r)	C129 C138 C171 C172 C177	1-124-910-11 1-136-165-00 1-163-005-11 1-163-005-11 1-102-074-00	FILM CERAMIC CHIP CERAMIC CHIP	47MF 0.1MF 470PF 470PF 0.001MF	20% 5% 10% 10% 10%	50V 50V 50V 50V 50V
R412 1-216-053- R1301 1-216-065- R1305 1-216-001- R1307 1-216-037- R1308 1-216-295-	OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE OO METAL GLAZE	0 5	5% 1/100 5% 1/100 5% 1/100 5% 1/100 5% 1/100	1 1 9	C181 IC103	1-101-004-00 <1 C> 8-759-979-62		0.01MF		50♥
	OO METAL GLAZE VARIABLE RESISTO		5 % 1/10	V		<001	L>			
RV331 1-238-012-					L100 L101 L102 L107	1-410-683-31 1-408-225-00 1-408-413-00 1-408-397-00	INDUCTOR INDUCTOR	560UH 3.3UH 22UH 1UH		
	11 OSCILLATOR, DO OSCILLATOR,					< T R A	NSISTOR>			
*********** *1-638-743-	*********		******	********	Q113 Q114 Q115 Q116 Q125	8-729-120-28 8-729-120-28 8-729-120-28	TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR D	SC1623-L5L6 SC1623-L5L6 SC1623-L5L6		
*4-341-752-	O1 EYELET				Q126 Q181		TRANSISTOR D TRANSISTOR 2			
	CONNECTOR>	on (n. n.	>			<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
F62 *1-580-690-	11 PIN, CONNECT 11 PIN, CONNECT FUSE>	OR (PC BO	OARD) 4P		JR252	1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE	0 5% 0 5% 0 5% 0 5% 0 5%	1/10V 1/8W 1/8W 1/8W 1/8W	
	21 FUSE (H.B.C. 11 HOLDER, FUSE SWITCH>) 4A/250V ; F1601	V		JR257	1-216-296-00 1-216-296-00 1-216-025-00 1-216-079-00 1-216-081-00	METAL GLAZE	0 5% 0 5% 100 5% 18K 5% 22K 5%	1/8W 1/8W 1/10W 1/10W 1/10W	
\$1701 A 1-571-433- **********************************		******* PLETE		*******	R108	1-216-079-00 1-249-429-11 1-216-057-00 1-216-023-00 1-216-085-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	18K 5% 10K 5% 2.2K 5% 82 5% 33K 5%	1/10W 1/4W 1/10W 1/10W 1/10W	
A11 *1-565-393- A12 *1-565-393- A13 *1-565-503-	11 CONNECTOR, B	OARD TO I	BOARD		R128 R129 R130 R157 R158	1-216-027-00 1-216-057-00 1-216-057-00 1-216-049-00 1-249-409-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	120 5% 2.2K 5% 2.2K 5% 1K 5% 220 5%	1/10V 1/10V 1/10V 1/10V 1/4W	
C101 1-126-233- C102 1-126-103-	CAPACITOR> 11 ELECT 11 ELECT	22MF 470MF	20% 20%	50V 16V	R159 R161 R162 R163 R164	1-249-409-11 1-216-089-00 1-216-095-00 1-216-095-00 1-216-075-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	220 5% 47K 5% 82K 5% 82K 5% 12K 5%	1/4W 1/10W 1/10W 1/10W 1/10W	
C104 1-124-916- C106 1-126-233- C108 1-136-165-	11 ELECT 11 ELECT	47MF 22MF 0.1MF	20% 20% 5%	50V 50V 50V	R165 R167 R168 R169	1-216-075-00 1-216-059-00 1-216-089-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	12K 5% 2.7K 5% 47K 5% 2.7K 5%	1/10 1/10 1/10 1/10	



The components identified by shading and mark Δ are critical for safety.

Replace only with part number specified.

REF. N	IO. PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R181 R182	1-216-065-00	METAL GLAZE	1K 4.7K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		J701	1-526-990-11	SOCKET, PICT	URE TU	BE		
R193 R194 R195	1-216-017-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47	5% 5%	1/10W 1/10W			<c01< td=""><td>L></td><td></td><td></td><td></td><td></td></c01<>	L>				
R196							L704	1-408-415-00	INDUCTOR	33 U	H		
					_,			<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td></tra<>	NSISTOR>				
TUIO	<tun 1-465-301-11</tun 		V-216/P	1177			Q702 Q703	8-729-119-78 8-729-906-70	TRANSISTOR 2	SC2785	-HFE		
			, 010(1	LU,,				8-729-200-17 8-729-119-78 8-729-906-70	TRANSISTOR 25	SA1091-	-O -HFE		
VICI		BLOCK>	.c 200c)				!						
	01 1-466-154-11				******		Q708	8-729-200-17 8-729-119-78 8-729-906-70	TRANSISTOR 25	SC2785-	-U -HFE		
	*A-1638-018-A		PLETE				Q710	8-729-200-17	TRANSISTOR 25	SA1091-	-0		
	*4-379-160-01 *4-379-167-01	COVER (REAR	LID), C	V			D704	<res< td=""><td>ISTOR></td><td>0.07</td><td>58/</td><td>211</td><td>_</td></res<>	ISTOR>	0.07	58 /	211	_
		NECTOR>					R704 R705 R706 R707	1-216-486-00 1-202-824-00 1-249-409-11 1-247-822-11 1-249-401-11	SOLID CARBON CARBON	8.2K 3.3K 220 430 47	5% 10% 5% 5% 5%	3W 1/2W 1/4W 1/4W	F
C71 C72	*1-506-371-00 *1-568-881-51	PIN CONNECT	OR 2P OR 6P				R709	1-249-401-11		47 330K		1/4W 1/2W	
C81 C82	*1-568-878-51 *1-508-765-00	PIN, CONNECT	OR 3P OR (5MM	חודרו	H) 3P		R710 R711	1-215-469-00 1-249-426-11	CARBON	100K 5.6K	1% 5%	1/4W 1/4W	
	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td><td></td><td>R712 R713</td><td>1-249-417-11 1-215-474-00</td><td>CARBON METAL</td><td>1 K 160 K</td><td>5% 1%</td><td>1/4W 1/4W</td><td></td></cap<>	ACITOR>					R712 R713	1-249-417-11 1-215-474-00	CARBON METAL	1 K 160 K	5% 1%	1/4W 1/4W	
C703		CERAMIC	270PF 680PF 180PF		5%	50V	R714 R715	1-216-486-00 1-202-824-00	SOLID	8.2K 3.3K	10%	3W 1/2W	F
C704 C705 C706	1-102-116-00 1-102-976-00 1-102-116-00	CERAMIC CERAMIC CERAMIC	180PF 680PF		5% 10%	50V 50V 50V	R716 R717 R718	1-249-409-11 1-249-415-11 1-202-814-11	CARBON	220 680 33K	5% 5% 10%	1/4W 1/4W 1/2W	
C707	1-162-116-00	CERAMIC	680PF		10%	2KV	R719	1-249-401-11 1-249-423-11	CARBON	47 3.3K		1/4W	
C708 C709 C710	1-162-114-00 1-102-116-00 1-123-947-00	CERAMIC CERAMIC	0.0047 680PF	MF	10% 20%	2KV 50V 250V	R720 R721 R722	1-249-423-11 1-202-842-11 1-202-848-00	SULTD	220K	10%	1/4W 1/2W	
C711 C712	1-101-880-00 1-102-980-00	CERAMIC CERAMIC ELECT CERAMIC CERAMIC	47PF 270PF		5% 5%	50V 50V	R723	1-249-417-11	CARBON	680K 1K	5%	1/2W 1/4W	
C714	1-124-360-00 1-162-622-11	ELECT	1000MF 330PF		20% 10%	16V 400V	R724 R725	1-202-846-00 1-202-838-00	SOLID	470K 100K	10% 10%	1/2W 1/2W	
C717	1-102-114-00 1-102-114-00	CERAMIC CERAMIC	470PF 470PF		10% 10% 10%	50V 50V	R726 R727 R728	1-202-824-00 1-249-409-11 1-216-347-11	SOLID CARBON METAL OXIDE	3.3K 220 0.68	10% 5% 5%	1/2W 1/4W 1W	F
C719	1-102-114-00	CERAMIC	470PF		10%	50V	R729	1-249-416-11	CARBON	820	5%	1/4W	•
	<dio< td=""><td>DE></td><td></td><td></td><td></td><td></td><td>R730 R731 R732</td><td>1-249-401-11 1-249-423-11 1-249-415-11</td><td>CARBON CARBON CARBON</td><td>47 3.3K 680</td><td>5% 5% 5%</td><td>1/4W 1/4W 1/4W</td><td></td></dio<>	DE>					R730 R731 R732	1-249-401-11 1-249-423-11 1-249-415-11	CARBON CARBON CARBON	47 3.3K 680	5% 5% 5%	1/4W 1/4W 1/4W	
D701 D702	8-719-110-14 8-719-911-19	DIODE RD9.1E DIODE 1SS119					R733	1-249-415-11	CARBON	680	5%	1/4W	
D703 D704 D705	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					R734 R735 R736	1-249-405-11	CARBON METAL	100 1M	5% 1% 5%	1/4W 1/4W	r
D706	8-719-911-19	DIODE 1SS119					R737 R739	1-216-486-00 1-215-483-00 1-249-417-11	METAL OXIDE METAL CARBON	8.2K 390K 1K	1% 5%	3W 1/4W 1/4W	F
D707 D708 D709	8-719-911-19 8-719-911-19 8-719-911-19	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119									-	. =	
D710	8-719-911-19	DIODE 155119					RV701		IABLE RESISTOR RES, ADJ, MET		7E 2 2	м	
D711 D713	8-719-300-33 8-719-911-19	DIODE RU-3AM DIODE 1SS119					RV702 RV703	1-230-619-11 1-237-749-11	RES, ADJ, MET RES, ADJ, CAR	AL GLA: BON 22	ZE 110 00	M	
	<jac< td=""><td>K></td><td></td><td></td><td></td><td></td><td></td><td>1-237-749-11 ********</td><td>RES, ADJ, CAR</td><td></td><td></td><td>****</td><td>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</td></jac<>	K>						1-237-749-11 ********	RES, ADJ, CAR			****	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	·onc											~~~~	~~~~~

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REF.NO	. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	Į		REMARK
	*A-1642-067-A	D BOARD, COM	PLETE			C519	1-136-173-00	FILM	0.47MF	5%	50V
	4-200-001-11 4-201-023-01 *4-341-751-01 *4-341-752-01 *4-368-683-01	HOLDER, IC SPACER, INSU EYELET EYELET	LATING		50V	C520 C521 C522 C523 C524	1-164-161-11 1-137-098-11 1-124-122-11 1-108-680-11 1-108-798-11	CERAMIC CHIP FILM ELECT MYLAR MYLAR	0.0022MF 0.1MF 100MF 0.001MF 0.0033MF	10% 10% 20% 10% 5%	50V 100V 50V 100V 50V
	< CAD	ACITOR>				C525 C526 C527	1-163-117-00 1-163-103-00 1-137-098-11	CERAMIC CHIP	100PF 27PF 0.1MF	5% 5% 10%	50V 50V 100V
C002	1-163-205-00	CERAMIC CHIP	0.001111	J/0	JU 1	C531 C532	1-124-190-00 1-124-122-11	ELECT ELECT	680MF 100MF	10%	25V 50V
C003 C004 C005 C008	1-124-925-11 1-124-120-11 1-124-903-11 1-163-117-00	ELECT ELECT CERAMIC CHIP		20% 20% 20% 5%	50V 16V 50V 50V	C533 C534 C536 C537	1-137-096-11 1-124-120-11 1-131-363-00 1-124-903-11	TANTALUM ELECT	0.068MF 220MF 4.7MF 1MF	107 207 107 207	100V 16V 16V 50V
C009 C010 C011	1-163-117-00 1-124-120-11 1-163-031-11	ELECT	100PF 220MF 0.01MF	5% 20%	50V 16V 50V	C538	1-108-680-11 1-163-129-00 1-163-009-11	MYLAR CERAMIC CHIP	0.001MF 330PF	10% 5%	100 V 50V
C013 C014	1-137-098-11 1-137-098-11	FILM FILM		10% 10%	100V 100V	: 0592	1-124-122-11	FI F CT	100MF	20%	50V 50V
C015 C016	1-124-902-00 1-163-141-00	CERAMIC CHIP		20% 5%	50V 50V	C601 ∆	1-163-129-00 .1-161-964-61	CERAMIC	0.0047MF	3%	50V 2 50V
CO17 CO18 CO19	1-137-098-11 1-163-127-00 1-137-094-11		A A (10% 5% 10%	100V 50V 100V	C602 A	. 1-161-964-61 . 1-161-964-61 . 1-125-318-11	-CERAMIC CERAMIC	0.0047MF 0.0047MF	20%	250V 250V 400V
C021 C023	1-163-117-00 1-163-117-00	CERAMIC CHIP CERAMIC CHIP			50V 50V	C605 C606	1-124-484-11	ELECT CERAMIC CHIP	220MF	20% 5%	35V 50V
CO24 CO27	1-163-117-00 1-124-910-11	CERAMIC CHIP	100FF 100PF 47MF	5% 5% 5% 20%	50V 50V	C607 C608	1-137-028-11 1-124-927-11	FILM ELECT	1MF 4.7MF	10% 20%	63V 50V
C030 C031	1-163-038-00 1-163-081-00	CERAMIC CHIP	U.IMF		25V 25V	C611 C612 C613	1-137-028-11 1-124-927-11 1-124-910-11 1-108-680-11 1-136-539-11	ELECT MYLAR FILM	47MF 0.001MF 0.0022MF	20% 10% 3%	50V 100V 2KV
C032 C033 C034	1-163-081-00 1-163-181-00 1-124-907-11	CERAMIC CHIP CERAMIC CHIP ELECT	0.22MF	5% 20%	25V 50V 50V	C614 C615	1-102-030-00 1-128-142-11	CERAMIC	330PF 1500MF	10% 20%	500V 25V
C251 C252	1-124-903-11	ELECT	1MF	20%	50V	C616	1-102-030-00 1-124-122-11 1-162-115-00	CERAMIC	330PF 100MF	10% 20%	500V 50V
C253 C254	1-126-233-11 1-163-009-11 1-137-098-11	CERAMIC CHIP	22MF 0.001MF 0.1MF	20% 10% 10%	50V 50V 100V	C619	1-128-320-11	ELECT	330PF 2200MF	10%	2KV 16V
C255 C261	1-124-636-00 1-124-903-11	ELECT ELECT	0.1MF 3300MF 1MF	20% 20%	25V 50V	C620 C621 C622	1-136-173-00 1-124-347-00 1-128-320-11	FILM	0.47MF 100MF 2200MF 47MF	5% 20% 20%	50V 160V 16V
C262 C263	1-126-233-11 1-163-009-11	CERAMIC CHIP	0.001MF	20% 10%	50V 50V	C623	1-124-910-11			20%	50 V
C264 C265 C270	1-137-098-11 1-124-564-11 1-137-035-11	FILM ELECT FILM	0.1MF 4700MF 0.47MF	10% 20% 10%	100V 25V 100V	C624 C625 C626	1-124-122-11 1-124-360-00 1-124-907-11	ELECT ELECT ELECT	100MF 1000MF 10MF	20% 20% 20%	50V 16V 50V
C274 C501	1-137-035-11 1-124-927-11	FILM ELECT	0.47MF 4.7MF	10% 20%	100V 50V	C627 C631	1-163-009-11 1-124-927-11	CERAMIC CHIP ELECT		10% 20%	50V 50V
C502 C503 C504	1-124-927-11 1-137-049-11	ELECT FILM	4.7MF 0.015MF	20% 10%	50V 400V	C632 C633	1-163-009-11 1-163-117-00	CERAMIC CHIP CERAMIC CHIP	100PF	10% 5% 20%	50V 50V
C505	1-163-121-00 1-108-794-11	CERAMIC CHIP	0.0015MF	5 % 5 %	50V 50V	C801 C802 C804	1-126-105-11 1-102-030-00 1-123-948-00	ELECT CERAMIC ELECT	1000MF 330PF 22MF	20% 10% 20%	35V 500V 250V
C506 C507 C508	1-137-102-11 1-137-033-11 1-137-102-11	FILM FILM FILM	0.022MF 0.33MF 0.022MF	10% 10% 10%	250V 100V 250V	C805 C806	1-162-114-00 1-137-098-11	CERAMIC FILM	0.0047MF 0.1MF	10%	2KV 100V
C509 C510	1-137-098-11	FILM	0.1MF	10%	100V	C807 C810	1-106-395-00 1-123-024-21	MYLAR ELECT	0.15MF 33MF	10%	200V 160V
C511 C512	1-161-959-00 1-108-686-11 1-137-098-11	CERAMIC MYLAR FILM	22PF 0.0033MF 0.1MF	10% 10% 10%	500V 100V 100V	C811 C812	1-136-111-00 1-124-634-11	FILM ELECT	1MF 1MF	5% 20%	200V 250V
C513 C514	1-163-125-00 1-137-028-11	CERAMIC CHIP FILM	220PF 1MF	5% 10%	50V 63V		1-102-212-00 1-161-731-51 1-136-111-00	CERAMIC CERAMIC FILM	820PF 0.001MF 1MF	10% 10%	500V 2KV 200V
C515 C516 C517	1-124-903-11 1-108-680-11 1-124-252-00	ELECT MYLAR	1MF 0.001MF	20% 10%	50V 100V	C817 <u>A</u> .	1-136-549-11	FILM	0.0106MF	5% 3%	1.4KV
č518	1-124-252-00 1-124-902-00	ELECT ELECT	0.33MF 0.47MF	20% 20%	50V 50V		1-129-721-51 1-161-731-51	FILM CERAMIC	0.039MF 0.001MF		2KV



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REF.NO. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C820 1-137-046-11 C821 A. 1-162-116-51 C822 1-163-005-11 C823 1-137-043-11 C824 1-102-212-00	FILM 0.0082MF 10% CERAMIC 680PF 10% CERAMIC CHIP 470PF 10% FILM 0.0047MF 10% CERAMIC 820PF 10%	400V 2KV 50V 400V 500V	D601 A D602 D603 D604 D605	\$8-719-510-63 8-719-300-33 8-719-911-55 8-719-911-55 8-719-911-55	DIODE UOSG	
C825 1-137-102-11 C1601A 1-136-518-11 C1602A 1-136-519-11 C1603A 1-164-246-51 C1605A 1-164-246-51	CERAMIC 0.0022MF 20% CERAMIC 0.0022MF 20%	250V 300V 300V 400V 400V	D606 D607 D608 D609 D610	8-719-300-33 8-719-300-33 8-719-300-33 8-719-929-71 8-719-300-59		
C1607A:1-161-964-61	CERAMIC 0.0047MF	250V	D611 D612 D613	8-719-300-59	DIODE ERD29-08J DIODE CTU-12S DIODE EGP20G	
	TER> VIBRATOR, CERAMIC		D614 D616	8-719-979-85 8-719-120-78	DIODE EGP20G DIODE RD6.2ES-L3	
CF501 1-567-888-11	OSCILLATOR, CERAMIC		D617 D618 D619	8-719-109-89 8-719-929-71	DIODE 1SS119 DIODE RD5.6ES-B2 DIODE HZS33NB1	
D1 *1-568-881-51	PIN, CONNECTOR 6P		D620 D621		DIODE HZS33NB1	
D11 *1-565-394-11 D12 *1-565-394-11 D18 *1-560-290-00	PIN, CONNECTOR 7P PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR PLUG, CONNECTOR (2.5MM PITCH)		D622 D623 D624 D630 D801	8-719-911-19 8-719-911-19 8-719-911-19 8-719-110-39 8-719-300-33	DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE RD15ES-B1 DIODE RU-3AM	
D32 *1-565-394-11	PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR PIN, BOARD TO BOARD CONNECTOR		D802 D803 D804 D805	8-719-976-64 8-719-911-55 8-719-911-55	DIODE RU-3AM DIODE RGP02-17 DIODE UO5G DIODE UO5G	
D41 *1-566-367-11 D44 *1-568-881-51 D45 *1-568-881-51	CONNECTOR, HINGE (RECEPTACLE) PIN, CONNECTOR 6P PIN, CONNECTOR 6P		D806 D808		DIODE ERCO6-15S DIODE ERD28-08S	
D65 *1-508-765-00 D66 *1-508-786-00 D82 *1-508-765-00 D83 *1-508-786-00 D84 *1-580-798-11	CONNECTOR, HINGE (RECEPTACLE) PIN, CONNECTOR 3P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P PIN, CONNECTOR (5MM PITCH) 2P CONNECTOR PIN (DY) 6P PIN, CONNECTOR (5MM PITCH) 3P		IC001 IC002 IC003 IC005 IC251	8-759-047-60 8-759-000-47 8-759-945-58 8-759-748-56 8-759-988-94	IC SDA20560-A012 IC MC14051BCP IC RC4558P IC SDA2546 IC TDA2050	
D801 *1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P		I C 261	8-759-988-94	IC TDA2050	*
<dio D001 8-719-929-03</dio 	DDE> DIODE HZS6.8NB3		I C501 I C502	4-812-134-00 8-759-970-73 8-759-944-57	RIVET NYLON, 3.5; IC261 IC TEA2028B IC TDA8170	
D002 8-719-929-03 D003 8-719-911-19 D005 8-719-109-89 D006 8-719-929-71	DIODE HZS6.8NB3 DIODE 1SS119 DIODE RD5.6ES-B2 DIODE HZS33NB1		IC604		IC TEA2260 IC TEA7605 IC LM7812CT	
D007 8-719-982-08 D009 8-719-109-89	DIODE MTZJ-3.9B DIODE RD5.6ES-B2			<01		
D010 8-719-120-78 D011 8-719-120-78 D012 8-719-911-19	DIODE RD6.2ES-L3 DIODE RD6.2ES-L3 DIODE ISS119		L501 L601 L602 L603	1-408-225-00 1-420-872-00 1-410-396-41 1-410-396-41	INDUCTOR 3.3UH COIL, AIR CORE FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
D013 8-719-929-03 D271 8-719-110-36 D272 8-719-911-19	DIODE HZS6.8NB3 DIODE RD13ES-B2 DIODE 1SS119		L604 L605	1-410-671-31	INDUCTOR 47UH COIL (WITH CORE) (DRUM TYPE	١
D501 8-719-911-19 D504 8-719-911-55	DIODE 188119 DIODE UO5G		L606 L607 L803	1-412-529-11 1-410-671-31 1-459-104-00	INDUCTOR 22UH INDUCTOR 47UH COIL, WITH CORE	,
D506 8-719-800-76 D508 8-719-911-19 D511 8-719-911-55	DIODE 1SS226 DIODE 1SS119 DIODE UO5G		L804 L805	1-408-239-00 1-459-652-12	INDUCTOR 4.7MMH	
D512 8-719-911-55 D513 8-719-928-85	DIODE U05G DIODE HZS4.7NB2		L806 L809 L810	1-459-115-00 1-420-872-00 1-459-390-00	COIL, DCC-H COIL, AIR CORE COIL (WITH CORE)	

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	REF.NO. PART NO.	DESCRIPTION 	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
1-437 990-00 IUT								5%	1/10W
TRANSISTURD			報告をよっても を取り上でもまた を取り上できた。 を取り上できた。	R013 R014 R015 R016 R017	1-216-085-00 1-216-061-00 1-216-085-00	METAL GLAZE METAL GLAZE METAL GLAZE	33K 3.3K 33K	5% 5% 5% 5%	1/10W 1/10W 1/10W
PSG012A 522-984-91 LINK, C (1CP-MSD), 2A R024 PSG02A 522-693-98-91 LINK, C (1CP-MSD), 2A R025 PSG02A F322-693-91 LINK, C (1CP-MSD), 2A R025 PSG02A F322-693-91 LINK, C (1CP-MSD), 2A R025 PSG02A F322-693-94 LINK, C (1CP-MSD), 2A R026 R026 PSG02A F322-693-94 LINK, C (1CP-MSD), 2A R026 R026 PSG02A R026 PSG02A R026 PSG02A R027 PSG02A R027 PSG02A R027 PSG02A R027 PSG02A R027 PSG02A R028 PSG02A R028 PSG02A	T802 ▲ 1°439-416°51	TRANSFORMER ASSY, FLYBACK		R020 R021	1-216-025-00 1-216-065-00	METAL GLAZE METAL GLAZE	100 100	5%	1/10W 1/10W 1/10W
No. Section	PS601A 1-532-984-91 PS602A 1-532-984-91 PS603A 1-532-679-91 PS604A 1-532-984-91	LINK, IC (ICP-N50) 2A LINK, IC (ICP-N50) 2A LINK, IC (ICP-N15) 0.6A LINK, IC (ICP-N50) 2A		R024 R025 R026 R027	1-216-073-00 1-216-073-00 1-216-182-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 220 100		1/10W 1/10W 1/8W 1/10W
No.	Q001 8-729-901-01 Q002 8-729-901-01 Q003 8-729-216-22 Q004 8-729-216-22 Q005 8-729-901-01	TRANSISTOR DTC144EK TRANSISTOR DTC144EK TRANSISTOR 2SA1162-G TRANSISTOR 2SA1162-G TRANSISTOR DTC144EK		R029 R030 R031 R032 R033	1-216-073-00 1-216-073-00 1-216-081-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 22K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W
No.	Q006 8-729-901-01 Q007 8-729-120-28 Q008 8-729-120-28 Q009 8-729-120-28 Q010 8-729-120-28	TRANSISTOR DTC144EK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6		R034 R035 R036 R037 R038	1-216-077-00 1-216-081-00 1-216-083-00 1-216-069-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 27K 6.8K 6.8K		1/10W 1/10W 1/10W
No.	Q251 8-729-120-28 Q261 8-729-120-28 Q271 8-729-120-28 Q502 8-729-216-22 Q505 8-729-140-96	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-G TRANSISTOR 2SD774-34		R039 R040 R041 R042 R043	1-216-081-00 1-216-077-00 1-216-073-00 1-216-049-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 1K 470		1/10W 1/10W 1/10W 1/10W
Q604 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R051 1-216-049-00 METAL GLAZE K 5% 1/10W Q606 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R053 1-216-049-00 METAL GLAZE K 5% 1/10W Q607 8-729-920-92 TRANSISTOR 2SC1623-L5L6 R053 1-216-049-00 METAL GLAZE K 5% 1/10W Q608 8-729-120-28 TRANSISTOR 2SC1623-L5L6 R053 1-216-049-00 METAL GLAZE K 5% 1/10W Q609 8-729-320-62 TRANSISTOR 2SC1623-L5L6 R055 1-216-037-00 METAL GLAZE ME	0598 8-729-216-22 0601 8-729-122-03	TRANSISTOR 2SA1162-G TRANSISTOR 2SA1220A-P		RO47 RO48	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 82K 10K 10K		1/10W 1/10W 1/10W 1/10W
R050 8-729-320-62 TRANSISTOR 2SD789-34 R050 1-216-073-00 METAL GLAZE 10K 5% 1/10W R050 R057 R057 R058 R057 R058	Q603 8-729-122-03 Q604 8-729-216-22 Q605 8-729-120-28 Q606 8-729-120-28 Q607 8-729-920-92	TRANSISTOR 2SA1220A-P TRANSISTOR 2SA1162-G TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SD2096-EF		R049 R050 R051 R052 R053	1-216-067-00 1-216-041-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 470 1K 1K		1/10W 1/10W 1/10W 1/10W
Resistor Robin R	0609 8-729-320-62 0801 8-729-120-28 0804 8-729-304-50	TRANSISTOR 2SD789-34 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SD1941-06		R056 R057 R058	1-216-037-00 1-216-073-00 1-216-025-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 10K 100 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W
JR3 1-216-296-00 METAL GLAZE 0 5% 1/8W JR4 1-216-295-00 METAL GLAZE 0 5% 1/10W JR7 1-216-296-00 METAL GLAZE 0 5% 1/10W R001 1-216-041-00 METAL GLAZE 470 5% 1/10W R002 1-216-041-00 METAL GLAZE 470 5% 1/10W R003 1-216-198-00 METAL GLAZE 1K 5% 1/10W R004 1-216-049-00 METAL GLAZE 1K 5% 1/10W R005 1-216-049-00 METAL GLAZE 1K 5% 1/10W R006 1-216-198-00 METAL GLAZE 1K 5% 1/10W R007 1-216-073-00 METAL GLAZE 1K 5% 1/10W R007 1-216-065-00 METAL GLAZE 10K 5% 1/10W R007 1-216-065-00 METAL GLAZE 4,7K 5% 1/10W R007 1-216-065-00 METAL GLAZE 4,7K 5% 1/10W R007 1-216-073-00 METAL GLAZE 10K 5% 1/10W R007 1-216-065-00 METAL GLAZE 4,7K 5% 1/10W R007 1-216-073-00 METAL GLAZE 10K 5% 1/10W R007 1-216-073-00 METAL GLAZE 10K 5% 1/10W R007 1-216-065-00 METAL GLAZE 10K 5% 1/10W R007 1-216-073-00 METAL GLAZE 10K 5% 1/10W R007 1-216-073-00 METAL GLAZE 10K 5% 1/10W R007 1-216-073-00 METAL GLAZE 10K 5% 1/10W	<res< td=""><td>SISTOR></td><td></td><td>R060</td><td>1-216-049-00 1-216-065-00</td><td>METAL GLAZE</td><td>1K 4.7K</td><td>5% 5% 5%</td><td>1/10W</td></res<>	SISTOR>		R060	1-216-049-00 1-216-065-00	METAL GLAZE	1K 4.7K	5% 5% 5%	1/10W
JR7 1-216-296-00 METAL GLAZE 0 5% 1/8W R065 1-216-049-00 METAL GLAZE 1K 5% 1/10W R066 1-216-049-00 METAL GLAZE 1K 5% 1/10W R066 1-216-049-00 METAL GLAZE 1K 5% 1/10W R067 1-216-073-00 METAL GLAZE 1K 5% 1/10W R068 1-216-198-00 METAL GLAZE 1K 5% 1/10W R068 1-216-198-00 METAL GLAZE 1K 5% 1/8W R004 1-216-049-00 METAL GLAZE 1K 5% 1/10W R069 1-216-174-00 METAL GLAZE 100 5% 1/8W R005 1-216-081-00 METAL GLAZE 1K 5% 1/10W R069 1-216-198-00 METAL GLAZE 1K 5% 1/8W R066 1-216-073-00 METAL GLAZE 10K 5% 1/10W R070 1-216-198-00 METAL GLAZE 1K 5% 1/8W R070 1-216-073-00 METAL GLAZE 1K 5% 1/8W R071 1-216-198-00 METAL GLAZE 1K 5% 1/8W R071 1-216-198-00 METAL GLAZE 1K 5% 1/8W R072 1-216-222-00 METAL GLAZE 10K 5% 1/8W R073 1-216-073-00 METAL GLAZE 10K 5% 1/10W R073 1-216-	JR3 1-216-296-00	METAL GLAZE 0 5% 1 METAL GLAZE 0 5% 1	1/8₩	R063	1-216-049-00	METAL GLAZE	1 K 1 K	5% 5%	1/10₩
ROUS 1-216-198-00 METAL GLAZE 1K 5% 1/8W ROO4 1-216-049-00 METAL GLAZE 1K 5% 1/10W ROO5 1-216-081-00 METAL GLAZE 2ZK 5% 1/10W ROO6 1-216-073-00 METAL GLAZE 1OK 5% 1/10W ROO7 1-216-198-00 METAL GLAZE 1K 5% 1/8W ROO7 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W ROO7 1-216-073-00 METAL GLAZE 1K 5% 1/8W ROO7 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W ROO7 1-216-073-00 METAL GLAZE 1OK 5% 1/10W	JR7 1-216-296-00 R001 1-216-041-00 R002 1-216-041-00	METAL GLAZE 0 5% 1 METAL GLAZE 0 5% 1 METAL GLAZE 470 5% 1 METAL GLAZE 470 5% 1	1/8W 1/10W	R065 R066 R067	1-216-049-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 O K	5% 5% 5% 5%	1/10W 1/10W 1/10W
RUU/ 1-216-065-00 METAL GLAZE 4.7K 5% 1/10W RO73 1-216-073-00 METAL GLAZE 10K 5% 1/10W RO08 1-216-073-00 METAL GLAZE 10K 5% 1/10W RO09 1-216-073-00 METAL GLAZE 10K 5% 1/10W RO09 1-216-073-00 METAL GLAZE 10K 5% 1/10W RO09 RO09 1-216-073-00 METAL GLAZE 10K 5% 1/10W RO09 RO09 RO09 RO09 RO09 RO09 RO09 RO09	R003 1-216-198-00 R004 1-216-049-00 R005 1-216-081-00 R006 1-216-073-00	METAL GLAZE 1K 5% 1 METAL GLAZE 1K 5% 1 METAL GLAZE 22K 5% 1 METAL GLAZE 10K 5% 1	1/10W 1/10W 1/10W	R069 R070 R071 R072	1-216-174-00 1-216-198-00 1-216-198-00 1-216-222-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 1K 10K	5% 5%	1/8W 1/8W 1/8W 1/8W
RO10 1-216-041-00 METAL GLAZE 10K 5% 1/10W RO76 1-216-041-00 METAL GLAZE 470 5% 1/10W RO76 1-216-073-00 METAL GLAZE 10K 5% 1/10W	R008 1-216-073-00 R009 1-216-073-00	METAL GLAZE 10K 5% 1 METAL GLAZE 10K 5% 1	1/10W 1/10W	R075	1-216-041-00	METAL GLAZE	470	5% 5% 5%	1/10₩



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			RE 	MARK
R078 R079 R080 R081 R083	1-216-198-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1 K 10 K 10 K 10 K 1 K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		R534 R535 R536 R537 R538	1-216-119-00 1-249-753-15 1-216-129-00 1-216-083-00 1-216-101-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	820K 4.7M 2.2M 27K 150K	5% 5% 5%	1/10W 1/4W 1/10W 1/10W 1/10W	
R084 R085 R086 R087 R088	1-216-049-00 1-216-049-00 1-216-049-00 1-216-035-00 1-216-059-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 1K 1K 270 2.7K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R539 R540 R541 R542 R543	1-216-101-00 1-216-013-00 1-216-091-00 1-216-308-00 1-249-451-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE CARBON	150K 33 56K 4.7 2.2	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/4W	
R093 R094 R095 R096 R098	1-216-073-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K 10K 1K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R544 R545 R546 R547 R548 R549	1-247-745-11 1-216-748-11 1-216-083-00 1-216-067-00 1-216-350-11 1-215-890-11	CARBON METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE	330 39K 27K 5.6K 1.2 470		1/2W 1/10W 1/10W 1/10W 1W F 2W F	
R252 R253 R254 R255 R256	1-216-039-00 1-216-073-00 1-216-357-00 1-216-073-00 1-216-115-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	4.7K 390 10K 4.7 10K		1/10W 1/10W 1/10W 1W 1/10W	F	R550 R551 R552 R553 R554	1-216-095-00 1-216-129-00 1-216-433-00 1-215-869-11 1-216-037-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE METAL GLAZE	82K 2.2M 1.2K 1K 330	5% 5%	1/10W 1/10W 1W 1W 1W 1/10W	
R257 R258 R259 R261 R262	1-216-077-00 1-215-869-11 1-216-065-00 1-216-065-00 1-216-039-00 1-216-073-00	METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	560K 15K 1K 4.7K 4.7K		1/10W 1W 1/10W 1/10W	F	R555 R556 R557 R558 R559	1-216-129-00 1-216-025-00 1-216-065-00 1-216-113-00 1-216-069-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	2.2M 100 4.7K 470K 6.8K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R263 R264 R265 R266	1-216-357-00 1-216-073-00 1-216-115-00 1-216-077-00	METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE	390 10K 4.7 10K 560K		1/10W- 1W 1/10W 1/10W	F	R560 R591 R592 R593 R594	1-216-037-00 1-216-047-00 1-216-049-00 1-216-053-00 1-216-071-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	330 820 1K 1.5K 8.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
R268 R269 R270 R271	1-215-869-11 1-216-065-00 1-216-073-00 1-216-045-00 1-216-073-00	METAL OXIDE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 4.7K 10K 680	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1W 1/10W 1/10W 1/10W 1/10W	F	R597 R598 R601 R603 R604	1-216-041-00 1-215-900-11 1-216-353-00 1-215-906-11 1-216-025-00	METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE METAL GLAZE	470 22K 2.2 15 100	5% 5% 5% 5%	1/10W 2W F 1W F 3W F 1/10W	
R273 R274 R500 R501	1-216-073-00 1-216-073-00 1-216-115-00 1-216-041-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 560K 470	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R605 R606 R607 R608 R609	1-216-081-00 1-216-051-00 1-216-065-00 1-216-488-11 1-216-007-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	22K 1.2K 4.7K 18K 18	5% 5% 5% 5%	1/10W 1/10W 1/10W 3W F 1/10W	
R503 R504 R505 R506 R509	1-216-035-00 1-249-420-11 1-216-077-00 1-216-071-00 1-216-063-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	270 1.8K 15K 8.2K	5% 5% 5%	1/10W 1/4W 1/10W 1/10W		R610 R611 R612 R613 R614	1-244-941-00 1-216-015-00 1-216-049-00 1-216-097-00 1-205-758-11	CARBON METAL GLAZE METAL GLAZE METAL GLAZE WIREWOUND			1/2W 1/10W 1/10W 1/10W 10W F	
R510 R514 R515 R517 R518 R519	1-216-067-00 1-216-033-00 1-216-061-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 220 3.3K 10K	55555 55555 55555	1/10W 1/10W 1/10W 1/10W		R616 R617 R618 R619 R620	1-216-099-00 1-216-037-00 1-216-431-11 1-216-073-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE METAL GLAZE	120K 330 560 10K 22K	5% 5% 5% 5%	1/10W 1/10W 1W F 1/10W 1/10W	
R520 R521 R522 R523 R524 R525	1-216-081-00 1-216-037-00 1-216-025-00 1-215-469-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL METAL GLAZE	22K 330 100 100K	5% 5% 5% 1% 5%	1/10W 1/10W 1/10W 1/4W		R621 R622 R623 R624 R625	1-216-077-00 1-216-073-00 1-216-081-00 1-216-067-00 1-215-865-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE	15K 10K 22K 5.6K 220	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W F	
R526 R527	1-216-057-00 1-216-049-00 1-249-409-11 1-216-077-00 1-216-031-00	METAL GLAZE METAL GLAZE CARBON METAL GLAZE METAL GLAZE	2.2K 1K 220 15K	55555 55555	1/10W 1/10W 1/4W 1/10W	F	R626 R628 R629 R631 R633	1-216-037-00 1-216-001-00 1-216-037-00 1-216-465-11 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL OXIDE METAL GLAZE	330 10 330 27K 1K	5% 5% 5% 5%	1/10W 1/10W 1/10W 2W 1/10W	
R528 R529 R530 R533	1-216-069-00 1-249-448-11 1-216-031-00	METAL GLAZE CARBON METAL GLAZE	6.8K 1.2 180	5% 5% 5%	1/10W 1/4W 1/10W	F	R634 R635	1-216-430-11 1-216-073-00	METAL OXIDE METAL GLAZE	390 10K	5% 5%	1W F 1/10W	

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.



REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R636 R643 R651 R653 R802	1-216-073-00 1-217-190-21 1-216-025-00 1-205-758-11 1-249-443-11	METAL GLAZE WIREWOUND METAL GLAZE WIREWOUND CARBON	10K 0.15 100 100 0.47	5% 5% 5% 10% 5%	1/10W 2W 1/10W 10W 1/4W	F F	C14 C15 C16 C17 C18	1-124-927-11 1-124-927-11 1-163-141-00 1-163-141-00 1-163-141-00	ELECT CERAMIC CHIP	0.001MF	20% 20% 5% 5% 5%	50V 50V 50V 50V 50V
R805 R806 R807 R809 R810	1-249-448-11 1-216-093-00 1-215-869-11 1-202-821-11 1-202-818-00	CARBON METAL GLAZE METAL OXIDE SOLID SOLID	1.2 68K 1K 1.8K 1K	5% 5% 5% 10% 10%	1/4W 1/10W 1W 1/2W 1/2W		C26 C27 C28 C29 C32	1-163-038-00 1-163-117-00 1-163-117-00 1-163-117-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 100PF 100PF 100PF	5% 5% 5%	25V 50V 50V 50V 25V
R811 R812 R815 R816 R817	1-215-863-11 1-247-285-00 1-215-884-11 1-215-868-00 1-216-049-00	METAL OXIDE CARBON METAL OXIDE METAL OXIDE METAL GLAZE	100 75K 47 680 1K	5% 5% 5% 5%	1W 1/2W 2W 1W 1/10W	F F	C33	1-163-038-00				25V
R820 R821 R822 R825 R826	1-249-403-11 1-247-725-11 1-217-778-11 1-216-349-00 1-216-097-00	CARBON CARBON FUSIBLE METAL OXIDE METAL GLAZE	68 10K 1K 1 100K	5% 5% 5% 5% 5%	1/4W 1/4W 1W 1W 1/10W	F		*1-565-393-11 *1-565-393-11 <dio< td=""><td>CONNECTOR, BO</td><td></td><td></td><td></td></dio<>	CONNECTOR, BO			
R827 R828 R829 R831 R16012	1-216-073-00 1-216-059-00 1-216-051-00 1-249-451-11 1-246-513-75	METAL GLAZE METAL GLAZE CARBON	10K 2.7K 1.2K 2.2 47K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/4W 1/4W		D1 D3 D4 D5 D6	8-719-105-91 8-719-104-34 8-719-400-18 8-719-104-34 8-719-400-18	DIODE RD5.6M- DIODE 1S2836 DIODE MA152WI DIODE 1S2836 DIODE MA152WI	<		
R16032 R16042 R16052	1-244-945-91 1-217-328-11 1-246-513-75 1-218-265-91 1-216-073-00	CARBON			1/2W 7W 1/4W 1W 1/10W		D7 D9	8-719-105-52 8-719-106-17 <1C>	DIODE RD3.6M- DIODE RD6.8M-	-B2 -B2		
R5504	1-216-308-00 1-216-121-00 1-216-001-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7 1M 10	5% 5% 5%	1/10W 1/10W 1/10W		IC1 IC2 IC3	8-759-039-18 8-759-045-54 8-759-510-49	IC SAA5246P/E	/M4A		
	<var< td=""><td>IABLE RESISTOR</td><td>l></td><td></td><td></td><td></td><td></td><td><01</td><td>L></td><td></td><td></td><td></td></var<>	IABLE RESISTOR	l >					<01	L>			
RV502	1-238-013-11 1-238-016-11 1-238-011-11	RES, ADJ, CAR	RBON 10)K			L1 L2 L3 L4	1-408-403-00 1-408-407-00 1-408-407-00 1-408-407-00	INDUCTOR INDUCTOR	3.3UH 6.8UH 6.8UH 6.8UH		
		RK GAP>						<10	LINK>			
SG801	1-519-422-11	GAP, SPARK					PS1 A	1-532-679-91	LINK, IC-(IC	P-N15) 0.6A	1945 - 1950 1945 - 1950	Section (Section)
		RMISTOR>	the feet				 	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td></tra<>	NSISTOR>			
	▲ 1-808-059-32						Q1 Q2	8-729-900-53 8-729-920-92	TRANSISTOR DI	C114EK		
	*A-1645-022-A		PLETE	•	****		Q3 Q4 Q5	8-729-120-28 8-729-120-28 8-729-807-87	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SC1623-L5L6 SC1623-L5L6		
	< CAF	'ACITOR>					Q6 Q7 Q8	8-729-807-87 8-729-807-87 8-729-120-28	TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25	SB1295-UL6		
C1 C2	1-126-101-11 1-163-038-00	ELECT CERAMIC CHIP			20%	16V 25V				1027 LJEU		
C1 C2 C3 C4 C5	1-124-120-11 1-163-077-00 1-124-120-11	ELECT CERAMIC CHIP ELECT	220MF 0.1MF 220MF		20% 20%	16V 50V 16V	JRO1	1-216-295-00	ISTOR> METAL GLAZE	0 5%	1/10	
C6 C10 C11 C12	1-163-038-00 1-163-038-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 0.1MF			25V 25V 25V 25V	JR02 JR03 JR08 JR09	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 5% 0 5% 0 5% 0 5%	1/10 1/10 1/10 1/10 1/10	
č13	1-163-038-00	CERAMIC CHIP	0.1MF			25V 25V	JR11	1-216-295-00	METAL GLAZE	0 5%	1/10	

V H1 H2

REF.NO	PART NO.	DESCRIPTION				REMARK	REF.NO. PART NO. DESCRIPTION REMARK
JR14 JR17 JR18 JR19 JR20	1-216-296-00 1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/8W 1/8W		X1 1-579-266-31 CRYSTAL VIBRATOR X2 1-577-364-11 VIBRATOR, CERAMIC
JR21 JR23 JR24 JR25 JR26	1-216-296-00 1-216-295-00 1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/8W 1/8W		*1-638-744-11 H1 BOARD ********* <capacitor></capacitor>
JR201 JR204 JR207 JR208 JR211	1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C1651 1-102-106-00 CERAMIC 100PF 10% 50V C1652 1-102-106-00 CERAMIC 100PF 10% 50V C1653 1-102-074-00 CERAMIC 0.001MF 10% 50V C1655 1-102-074-00 CERAMIC 0.001MF 10% 50V
JR213 JR219 JR220 JR223 R1	1-216-295-00 1-216-296-00 1-216-295-00 1-216-295-00 1-218-326-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 470	5% 5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/2W		<pre><connector> H1-1 *1-568-881-51 PIN, CONNECTOR 6P H1-2 1-568-678-11 TERMINAL BLOCK, S 3P H1-4 *1-568-879-51 PIN, CONNECTOR 4P</connector></pre>
R3 R4 R5 R6 R7	1-216-049-00 1-216-025-00 1-216-047-00 1-216-001-00 1-216-083-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	1K 100 820 10 27K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		H1-05 1-562-837-11 JACK H1-23 *1-568-879-51 PIN, CONNECTOR 4P H1-43 *1-564-512-11 PLUG, CONNECTOR 9P
R8 R9 R02 R10 R11	1-216-071-00 1-216-308-00 1-216-214-00 1-218-325-11 1-218-325-11	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 4.7 4.7K 120 120	5% 5% 5% 5%	1/10W 1/10W 1/8W 1/4W 1/4W		<pre></pre>
R12 R13 R14 R15 R16	1-218-325-11 1-216-025-00 1-216-001-00 1-216-013-00 1-216-013-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	120 100 10 33 33	5% 5% 5% 5%	1/4W 1/10W 1/10W 1/10W 1/10W		<pre></pre>
R17 R18 R19 R20 R21	1-216-013-00 1-216-025-00 1-216-025-00 1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	33 100 100 470 470	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		*1-638-745-11 H2 BOARD ******** *4-374-987-01 GUIDE, LIGHT
R22 R23 R24 R25 R26	1-216-168-00 1-216-214-00 1-216-055-00 1-216-065-00 1-216-049-00	METAL GLAZE	56 4.7K 1.8K 4.7K 1K	5%	1/8W 1/8W 1/10W 1/10W 1/10W		*4-381-686-01 BRACKET (B), LIGHT GUIDE <diode> D1651 8-719-948-31 DIODE LD-201VR</diode>
R27 R28 R34 R35 R40	1-216-214-00 1-216-067-00 1-216-065-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 5.6K 4.7K 4.7K 4.7K	5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/10W		*4-201-076-01 HOLDER, LED; D1651 D1652 8-719-948-31 D10DE LD-201VR *4-201-076-01 HOLDER, LED; D1652 D1654 8-719-948-31 D10DE LD-201VR *4-201-076-01 HOLDER, LED; D1654
R41 R42 R44 R46 R47	1-216-065-00 1-216-049-00 1-216-295-00 1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 1K 0 4.7K 4.7K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		<connector> H2-2 *1-568-882-51 PIN, CONNECTOR 7P</connector>
R49 R50	1-216-049-00 1-216-296-00	METAL GLAZE METAL GLAZE	1 K 0	5% 5%	1/10W 1/8W		<ic> IC1651 8-741-101-75 IC SBX1610-11</ic>
	<var< td=""><td>IABLE RESISTOR</td><td>;></td><td></td><td></td><td></td><td></td></var<>	IABLE RESISTOR	;>				
RV1	1-238-012-11	RES, ADJ, CAR	BON 1K				<pre></pre>
	<cry< td=""><td>STAL></td><td></td><td></td><td></td><td></td><td>**************************************</td></cry<>	STAL>					**************************************

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REF.NO	. PART NO.	DESCRIPTION		REMARK	EF.NO. PART NO. DESCRIPTION	! -	REMARK
	*A-1651-023-A	J1 BOARD, COMPLE	TE **		C1429 1-163-029-11 CERAMIC CHIR C1430 1-163-003-11 CERAMIC CHIR		50V 10% 50V
C203 C205		ACITOR> ELECT 2.2 ELECT 4.7	MF 20%	50V 50V	C1431 1-126-529-11 ELECT C1432 1-124-902-00 ELECT C1433 1-124-122-11 ELECT C1436 1-163-009-11 CERAMIC CHIF C1437 1-163-009-11 CERAMIC CHIF	0.47MF 2 100MF 2 0.001MF 1	20% 50V 20% 50V 20% 50V 0% 50V 0% 50V
C206 C207 C213	1-124-925-11 1-124-925-11 1-124-927-11 1-126-233-11	ELECT 2.2 ELECT 4.7 ELECT 22M	MF 20% MF 20%	50V 50V 50V	C1438 1-137-047-11 FILM C1439 1-137-047-11 FILM C1440 1-124-907-11 ELECT C1441 1-124-907-11 ELECT	0.01MF 1	0% 400V 0% 400V 0% 50V 0% 50V
C214 C217 C218 C219 C220	1-137-045-11 1-137-045-11 1-137-102-11 1-137-102-11 1-108-686-11	FILM 0.0 FILM 0.0 FILM 0.0	068MF 10% 068MF 10% 22MF 10% 22MF 10% 033MF 10%	400V 400V 250V 250V 100V	C1442 1-137-098-11 FILM C1443 1-137-098-11 FILM C1444 1-124-910-11 ELECT C1445 1-102-824-00 CERAMIC C1446 1-102-824-00 CERAMIC	0.1MF 1 0.1MF 1 47MF 2	0% 100V 0% 100V 0% 50V % 50V % 50V
C221 C222 C223 C224 C225	1-108-686-11 1-137-095-11 1-137-095-11 1-137-047-11 1-136-173-00	FILM 0.0		100V 100V 100V 400V 50V	C1501 1-124-927-11 ELECT C1502 1-124-903-11 ELECT C1503 1-108-680-11 MYLAR C1504 1-124-910-11 ELECT C1505 1-137-094-11 FILM	4.7MF 2 1MF 2 0.001MF 1 47MF 2	0% 50V 0% 50V 0% 100V 0% 50V 0% 100V
C226 C227 C228 C229 C230	1-136-173-00 1-137-102-11 1-137-104-11 1-137-049-11 1-137-049-11	FILM 0.0 FILM 0.0	7MF 5% 22MF 10% 33MF 10% 15MF 10% 15MF 10%	50V 250V 250V 400V 400V	C1507 1-108-686-11 MYLAR C1508 1-124-903-11 ELECT C1509 1-124-903-11 ELECT C1511 1-124-927-11 ELECT C1512 1-137-045-11 FILM	0.0033MF 1 1MF 2 1MF 2 4.7MF 2	0% 100V 0% 50V 0% 50V 0% 50V 0% 400V
C231 C232 C233 C234 C235	1-124-902-00 1-124-907-11 1-163-005-11 1-163-005-11 1-163-005-11	ELECT 0.4 ELECT 10M CERAMIC CHIP 470 CERAMIC CHIP 470 CERAMIC CHIP 470	F 20% PF 10% PF 10%	50V 50V 50V 50V 50V	C1513 1-163-105-00 CERAMIC CHIP C1514 1-137-102-11 FILM C1515 1-102-117-00 CERAMIC	33PF 5 0.022MF 1	\$\tilde{\chi} \tilde{50V} \\ 0\tilde{\chi} \tilde{250V} \\ 0\tilde{\chi} \tilde{50V} \\ \tilde{50V} \\ \tilde{\chi} \tilde{50V} \\ \tilde{\chi} \tilde{50V} \\ \tilde{\chi} \tilde{\chi} \tilde{50V} \\ \tilde{\chi} \tilde{\chi} \tilde{\chi} \tilde{\chi} \tilde{\chi} \\ \tilde{\chi} \tilde{\chi} \tilde{\chi} \\ \tilde{\chi} \tilde{\chi} \tilde{\chi} \\ \tilde{\chi} \tilde{\chi} \\ \
C236 C237 C238 C239 C240	1-163-005-11 1-124-902-00 1-163-125-00 1-126-103-11 1-163-018-00	CERAMIC CHIP 470 ELECT 0.4 CERAMIC CHIP 220 ELECT 470 CERAMIC CHIP 0.0	7MF 20% PF 5% MF 20%	50V 50V 50V 16V 50V	<pre><connector> CN1401 1-565-838-11 JACK BLOCK, J1-41 *1-566-641-11 CONNECTOR, H J1-43 *1-564-524-11 PLUG, CONNECTOR, H J1-44 *1-564-521</connector></pre>	INGE (TAB) 18P TOR 9P	
C241 C242 C243 C244 C245	1-163-018-00 1-163-033-00 1-163-033-00 1-163-033-00 1-163-033-00	CERAMIC CHIP 0.00 CERAMIC CHIP 0.00 CERAMIC CHIP 0.00 CERAMIC CHIP 0.00 CERAMIC CHIP 0.00	22MF 22MF 22MF	50V 50V 50V 50V 50V	<d10de></d10de>	INGE (TAB) 18P	
C1401 C1402 C1403 C1404 C1405	1-124-907-11 1-126-103-11 1-163-003-11 1-137-098-11 1-163-029-11	ELECT 10M ELECT 470 CERAMIC CHIP 3300 FILM 0.11 CERAMIC CHIP 0.00	MF 20% PF 10% MF 10%	50V 16V 50V 100V 50V	0201 8-719-110-14 DIODE RD9. 1E 0202 8-719-110-14 DIODE RD9. 1E 0205 8-719-110-03 DIODE RD7. 5E 0206 8-719-110-03 DIODE RD7. 5E 01401 8-719-110-03 DIODE RD7. 5E 01402 0-710-110-03 DIODE RD7. 5E	S-B3 S-B2 S-B2 S-B2	
C1406 C1407 C1408 C1409 C1410	1-137-098-11 1-124-910-11 1-124-122-11 1-126-233-11 1-124-907-11	FILM 0.11 ELECT 47M ELECT 1000 ELECT 22M ELECT 10M	F 20% MF 20% F 20%	100V 50V 50V 50V 50V	D1403 8-719-110-03 DIODE RD7.5E: D1404 8-719-110-03 DIODE RD7.5E: D1405 8-719-110-03 DIODE RD7.5E: D1406 8-719-110-03 DIODE RD7.5E: D1407 8-719-120-03 DIODE RD7.5E: D1407 8-719-921-77 DIODE MTZN-1:	5-82 5-82 5-82 OC	
C1411 C1412 C1413 C1414 C1415	1-124-907-11 1-124-910-11 1-124-910-11 1-124-907-11 1-137-098-11	ELECT 10M ELECT 47M ELECT 47M ELECT 10M FILM 0.1	F 20% F 20% F 20%	50V 50V 50V 50V 100V	01408 8-719-110-14 DIODE RD9.1E: 01409 8-719-110-14 DIODE RD9.1E: 01410 8-719-110-14 DIODE RD9.1E: 01415 8-719-110-03 DIODE RD7.5E: 01418 8-719-110-03 DIODE RD7.5E:	5-B3 5-B3 5-B2 5-B2	
C1416 C1417 C1418 C1419 C1425	1-137-098-11 1-124-120-11 1-163-003-11 1-163-003-11 1-124-902-00	FILM 0.19 ELECT 2200 CERAMIC CHIP 3300 CERAMIC CHIP 3300 ELECT 0.4	MF 20% PF 10% PF 10%	100V 16V 50V 50V 50V	01419 8-719-110-03 DIODE RD7.5E: 01420 8-719-110-03 DIODE RD7.5E: 01421 8-719-110-03 DIODE RD7.5E: 01422 8-719-110-03 DIODE RD7.5E: 01423 8-719-110-03 DIODE RD7.5E:	S-B2 S-B2 S-B2 S-B2	
C1426 C1427 C1428	1-124-902-00 1-163-029-11 1-163-029-11	ELECT 0.44 CERAMIC CHIP 0.00 CERAMIC CHIP 0.00	047MF	50V 50V 50V	D1424 8-719-110-03 DIODE RD7.5E: 11425 8-719-110-03 DIODE RD7.5E: 01426 8-719-110-03 DIODE RD7.5E: 01501 8-719-300-33 DIODE RU-3AM	5-B2	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
D1503 D1504 D1505		DIODE 1SS119 DIODE 1SS119 DIODE 1SS119 DIODE 1SS119					R233 R234 R235	1-216-057-00 1-216-057-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 2.2K 0		1/10W 1/10W 1/10W	
D1510	8-719-982-33 8-719-911-19 8-719-911-19	DIODE MTZJ-360 DIODE 1SS119 DIODE 1SS119	D				R236 R240 R241 R242 R243	PART NO 1-216-057-00 1-216-057-00 1-216-295-00 1-216-033-00 1-216-091-00 1-216-091-00 1-216-075-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 220 56K 56K 12K	5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W 1/10W 1/10W	
I C201 I C1401 I C1402 I C1403	<1C> 8-759-013-17 8-752-053-17 8-759-946-32 8-759-140-53	IC TDA6200 IC CXA1114P IC TEA2014A IC UPD4053BC IC TEA2031A K> SOCKET 21P		·			R244 R245 R246 R247 R248	1-216-067-00 1-216-075-00 1-216-067-00 1-216-075-00 1-216-067-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 12K 5.6K 12K 5.6K	5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	
IC1501	8-759-942-16 <jac< td=""><td>IC TEA2031A K></td><td></td><td></td><td></td><td></td><td>R249 R250 R1400 R1401 R1402</td><td>1-216-075-00 1-216-067-00 1-216-295-00 1-216-023-00 1-216-170-00</td><td>METAL GLAZE METAL GLAZE</td><td>12K 5.6K 0 82 68</td><td>5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W 1/8W</td><td></td></jac<>	IC TEA2031A K>					R249 R250 R1400 R1401 R1402	1-216-075-00 1-216-067-00 1-216-295-00 1-216-023-00 1-216-170-00	METAL GLAZE METAL GLAZE	12K 5.6K 0 82 68	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W	
J1402 J1403	1-561-534-41 1-561-534-41	SOCKET 21P SOCKET 21P					R1403 R1404 R1405	1-216-089-00 1-216-178-00 1-249-434-11	METAL GLAZE METAL GLAZE CARBON	47K 150 27K	5% 5% 5% 5% 5% 5%	1/10W 1/8W 1/4W	
Q201 Q202 Q1401 Q1402	8-729-120-28 8-729-120-28 8-729-216-22 8-729-120-28	TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI TRANSISTOR 2SI	C1623- C1623- A1162-	L5L6 L5L6 G			R1407 R1408 R1409 R1410	1-216-089-00 1-216-089-00 1-216-089-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470K 47K 470 47K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
Q1403 Q1404	8-729-120-28 8-729-120-28	TRANSISTOR 2SI	C1623- A1162-	LSL6 LSL6 G			R1411 R1412 R1413	1-216-041-00 1-216-089-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	470 47K 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
D201	<res< td=""><td>ISTOR></td><td>104</td><td>~av</td><td>1 /100</td><td></td><td>R1414 R1415 R1416 R1417</td><td>1-216-089-00 1-216-083-00 1-216-083-00 1-216-023-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE</td><td>47K 27K 27K 82</td><td>5% 5% 5% 5%</td><td>1/10W 1/10W 1/10W 1/10W</td><td></td></res<>	ISTOR>	104	~av	1 /100		R1414 R1415 R1416 R1417	1-216-089-00 1-216-083-00 1-216-083-00 1-216-023-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	47K 27K 27K 82	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R201 R202 R203 R204 R205	1-216-079-00 1-216-206-00 1-216-075-00 1-216-085-00 1-216-085-00	SOCKET 21P SOCKET 21P SOCKET 21P NSISTOR> TRANSISTOR 2S: TRANSISTOR 2S: METAL GLAZE	18K 2.2K 12K 33K 33K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W 1/10W		R1418 R1419 R1420 R1421	1-247-738-11 1-216-295-00 1-216-295-00 1-216-295-00	CARBON METAL GLAZE METAL GLAZE METAL GLAZE	82 0 0 0	5% 55% 5555 5% 5555 5%	1/2W F 1/10W 1/10W 1/10W	
R206 R207 R208 R209	1-216-061-00 1-216-061-00 1-216-077-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.3K 3.3K 15K 22K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1422 R1423 R1424 R1425	1-216-025-00 1-216-083-00 1-216-083-00 1-216-045-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 27K 27K 680	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R211 R212	1-216-077-00 1-216-097-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	15K 100K 22K	5% 5%	1/10W 1/10W 1/10W		R1426 R1427 R1428	1-216-025-00 1-216-001-00 1-216-113-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 10 470K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R214 R215	1-216-033-00 1-216-081-00	METAL GLAZE METAL GLAZE	220 22K	5% 5%	1/10W 1/10W		R1430 R1431 R1432	1-216-170-00 1-216-041-00 1-216-041-00	METAL GLAZE METAL GLAZE METAL GLAZE	68 470 470	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W	
R216 R217 R218 R219 R220	1-216-081-00 1-216-077-00 1-216-033-00 1-216-073-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	22K 15K 220 10K 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W		R1434 R1437 R1440	1-216-033-00 1-249-393-11 1-249-434-11 1-216-045-00	METAL GLAZE CARBON CARBON METAL GLAZE	220 10 27K 680	5% 5% 5% 5% 5% 5%	1/10W 1/4W F 1/4W 1/10W	
R221 R222 R223 R224 R225	1-216-041-00 1-216-041-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	470 470 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R1441 R1442 R1443 R1444	1-216-045-00 1-216-089-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 47K 47K 220		1/10W 1/10W 1/10W 1/10W	
R226	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 220	5% 5% 5%	1/10W 1/10W 1/10W		R1445 R1446	1-216-095-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	82K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R227 R228 R229 R230	1-216-033-00 1-216-033-00 1-216-075-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 12K 18K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W		R1449 R1452	1-216-025-00 1-216-023-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 82 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R231 R232	1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W			1-216-180-00	METAL GLAZE	180	5%	1/10W 1/8W	

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REF.NO. PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
R1455 1-216-180-00 R1457 1-216-025-00 R1459 1-216-025-00 R1460 1-216-053-00 R1461 1-216-190-00	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1	180 5% 100 5% 100 5% 1.5K 5% 470 5%	1/8W 1/10W 1/10W 1/10W 1/8W		 	*A-1654-005-A	IFG BOARD, C ************* ACITOR>			
R1462 1-216-057-00 R1463 1-216-049-00 R1464 1-216-061-00 R1465 1-216-023-00 R1466 1-216-033-00	METAL GLAZE 1 METAL GLAZE 3 METAL GLAZE 8	2.2K 5% 1K 5% 3.3K 5% 82 5% 220 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C1 C2 C3 C4 C5	1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11 1-163-031-11	CERAMIC CHIP	0.01MF 0.01MF 0.01MF		50 V 50 V 50 V 50 V 50 V
R1467 1-216-025-00 R1468 1-216-025-00 R1469 1-216-025-00 R1470 1-216-025-00 R1471 1-216-023-00	METAL GLAZE 1 METAL GLAZE 1 METAL GLAZE 1	100 5% 100 5% 100 5% 100 5% 32 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C6 C7 C8 C9 C10	1-163-031-11 1-124-903-11 1-124-907-11 1-130-471-00 1-163-121-00	ELECT	1MF 10MF 0.001MF	20% 20% 5% 5%	50 V 50 V 50 V 50 V 50 V
R1472 1-216-023-00 R1473 1-216-023-00 R1474 1-216-113-00 R1476 1-216-089-00 R1477 1-216-089-00	METAL GLAZE 8 METAL GLAZE 4 METAL GLAZE 4	52 5% 52 5% 470K 5% 47K 5% 47K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C11 C12 C13 C14 C15	1-163-119-00 1-136-298-00 1-124-477-11 1-124-477-11 1-124-477-11	CERAMIC CHIP FILM ELECT ELECT ELECT	120PF 0.0033MF 47MF 47MF 47MF	5% 2% 20% 20% 20%	50 V 100 V 16 V 16 V 16 V
R1478 1-216-113-00 R1480 1-216-190-00 R1482 1-216-178-00 R1483 1-216-178-00 R1484 1-216-073-00	METAL GLAZE 4 METAL GLAZE 1 METAL GLAZE 1	170K 5% 170 5% 150 5% 150 5% 10K 5%	1/10W 1/8W 1/8W 1/8W 1/10W		C16 C17 C18 C19 C20		ELECT	47MF 10MF 0.01MF 0.01MF 22MF	20% 20% 10% 10% 20%	16 V 50 V 40 O V 40 O V 50 V
R1485 1-216-073-00 R1486 1-216-073-00 R1487 1-216-065-00 R1488 1-216-065-00 R1489 1-216-065-00	METAL GLAZE 1 METAL GLAZE 4 METAL GLAZE 4	10K 5% 10K 5% 1.7K 5% 1.7K 5% 1.7K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C21 C22 C23 C24 C25	1-126-233-11 1-137-098-11 1-137-031-11 1-124-034-51 1-137-102-11	FILM FILM ELECT	22MF 0.1MF 0.22MF 33MF 0.022MF	20% 10% 10% 20% 10%	50 V 10 0 V 10 0 V 16 V 25 0 V
R1501 1-216-081-00 R1502 1-216-083-00 R1503 1-216-113-00 R1504 1-216-085-00 R1505 1-216-081-00	METAL GLAZE 2 METAL GLAZE 4 METAL GLAZE 3	22K 5% 27K 5% 170K 5% 33K 5% 22K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C26 C27 C28 C29 C30	1-137-094-11 1-124-903-11 1-163-109-00 1-124-903-11 1-124-903-11	ELECT CERAMIC CHIP ELECT	0.047MF 1MF 47PF 1MF 1MF	10% 20% 5% 20% 20%	10 0 V 50 V 50 V 50 V 50 V
R1506 1-216-113-00 R1509 1-216-105-00 R1510 1-216-067-00 R1511 1-216-049-00 R1512 1-216-073-00	METAL GLAZE 2 METAL GLAZE 5 METAL GLAZE 1	170K 5% 220K 5% 5.6K 5% K 5% 0K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C31 C32 C33 C34 C35	1-137-047-11 1-130-479-00 1-163-081-00 1-137-031-11 1-124-907-11	CERAMIC CHIP	0.01MF 0.0047MF 0.22MF 0.22MF 10MF	10% 5% 10% 20%	40 OV 50 V 25 V 10 OV 50 V
R1513 1-216-091-00 R1514 1-216-049-00 R1515 1-216-117-00 R1516 1-216-079-00 R1517 1-216-033-00	METAL GLAZE 1 METAL GLAZE 6 METAL GLAZE 1	K 5%	1/10W 1/10W 1/10W 1/10W 1/10W		C36 C37 C38 C39	1-163-119-00 1-124-477-11 1-124-477-11 1-163-133-00	ELECT	47MF	5% 20% 20% 5%	50 V 16 V 16 V 50 V
R1519 1-216-101-00 R1520 1-216-113-00 R1521 1-216-214-00 R1556 1-216-067-00	METAL GLAZE 4	50K 5% 70K 5% -7K 5% -6K 5%	1/10W 1/10W 1/8W 1/10W							
<var< td=""><td>IABLE RESISTOR></td><td></td><td></td><td>į</td><td></td><td></td><td></td><td></td><td></td><td></td></var<>	IABLE RESISTOR>			į						
RV1501 1-238-023-11 RV1502 1-238-016-11 RV1503 1-238-017-11 RV1504 1-238-012-11 RV1505 1-238-023-11	RES, ADJ, CARBO RES, ADJ, CARBO RES. ADJ. CARBO	N 10K N 22K N 1K		 						
RV1506 1-238-017-11 RV1507 1-238-009-11 RV1508 1-238-016-11 RV1509 1-238-023-11	RES, ADJ, CARBOI RES, ADJ, CARBOI	N 220 N 10K N 470K								

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REMARK

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.
							RV2	1-238-019-
	<f1l< td=""><td>TER></td><td></td><td></td><td></td><td></td><td>*****</td><td>*******</td></f1l<>	TER>					*****	*******
CDA1 CDA2 SFT1 SFT2		DISCRIMINATOR DISCRIMINATOR FILTER, CERAN FILTER, CERAN	R, CERA MIC	AMIC AMIC				. 1-426-383 . 1-451-295 1-452-032
	<dio< td=""><td>IDE></td><td></td><td></td><td></td><td></td><td></td><td>1-452-094- 1-452-277-</td></dio<>	IDE>						1-452-094- 1-452-277-
D3	8-719-400-18	DIODE MA152W	(Δ.	1-544-728-
	<1C>							. 1-590-501- . 8-738-758-
IC1 IC2	8-759-003-90 8-759-003-90	IC.TBA129					!	******
IC3 IC4		IC TDA6600-2 IC TDA2595/V9)				 	ACCES
	< CON	NECTOR>						PART NO.
IFG13	*1-565-488-11	CONNECTOR, BO	OARD TO	BOARD	12P			4-200-870-
	<001	L>						*4~200-923- *4~200-924-
L1 L2	1-408-410-00	INDUCTOR INDUCTOR	12UH 12UH				1	4-200-924- 4-200-925-
L3 L4 L5	1-408-421-00	INDUCTOR INDUCTOR INDUCTOR	2.7N 100U 100U	JH			; ; ; ;	¥4-384-027-
2,			1000	711			1 1 1 1 1	
Q 2	<tra 8-729-901-00</tra 	NSISTOR> TRANSISTOR DT	'C124E4	,			! ! ! !	1-465-796- 4-031-670-
03 04	8-729-216-22	TRANSISTOR DE TRANSISTOR DE	A1162-	·G			 	
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>						
JR8	1-216-296-00	METAL GLAZE	0	5% 5%	1/8W			
JR10 R1 R2	1-216-296-00 1-216-045-00 1-216-043-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 680 560	5% 5% 5%	1/8W 1/10W 1/10W		 	
R3	1-216-043-00	METAL GLAZE	560	5%	1/10W			
R5 R6 R7 R9	1-216-045-00 1-216-043-00 1-216-043-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	680 560 560 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W			
R11 R12	1-216-095-00 1-216-097-00	METAL GLAZE METAL GLAZE	82K 100K	5% 5%	1/10W 1/10W			
R13 R15 R16 R17	1-216-071-00 1-216-059-00 1-216-097-00 1-216-097-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	8.2K 2.7K 100K 100K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			
R18 R19 R20 R22 R24	1-216-063-00 1-216-097-00 1-216-075-00 1-216-099-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 100K 12K 120K 47K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W			
R25	1-216-077-00	METAL GLAZE	15K	5%	1/10W	; ; ; ;		
		LINE DEGLAMOD				ļ		

RK	REF.NO.	PART NO.	DESCRIPTION	REMAR
	RV2	1-238-019-11	RES, ADJ, CARBON 47K	

MISCELLANEOUS

⚠. 1-426-383-11 ⚠. 1-451-295-11 1-452-032-00 1-452-094-00 1-452-277-00 COIL, DEMAGNETIZATION
DEFLECTION YOKE (Y21PFA2)
MAGNET, DISK: 10MM Ø
MAGNET, ROTATABLE DISK; 15MM Ø
MAGNET, BMC

1-544-728-11 SPEAKER (7.5X13CM) \$\Delta\$.1-590-501-11 CORD, POWER (WITH NOISE FILTER)

V901 A. 8-738-758-05 PICTURE TUBE (A51JXH61X)

ACCESSORIES AND PACKING MATERIALS ******************

PART NO.	DESCRIPTION	REMARK
4-200-870-11	MANUAL, INSTRUCTION (GERMAN/ENGI	ISH/
*4-200-923-01	FRENCH/DUTCH/ITALIAN/PORTUGUESE) CUSHION (UPPER) (ASSY)	i
*4-200-924-01 *4-200-925-01	CUSHION (LOWER) (ASSY) INDIVIDUAL CARTON	
*4-384-027-01	BAG, PROTECTION	

REMOTE COMMANDER

1-465-796-11 CONTROL UNIT, REMOTE (RM-816) 4-031-670-01 COVER, POCKET (FOR RM-816)

<VARIABLE RESISTOR>

RV1 1-238-016-11 RES, ADJ, CARBON 10K

Sony Corporation TV Group

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